THE BIBLIOGRAPHY

OF

EARTHQUAKE ENGINEERING

Edited by

KIYOSHI KANAI

April, 1972

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16. Abstracts

This bibliography of earthquake engineering literature is comprised of published articles up to the year 1971. Main topic areas include: (1) earthquake; (2) ground vibration; (3) ground; (4) structures; (5) earthquake damage; (6) earthquake resistant structures and earthquake resistant design; and (7) foreign countries (seismic intensity, seismicity, earthquake damage, earthquake resistance regulations). The list consists of the reference number, author's name, title of the paper, and name, volume, year, and page of the source in which the paper was published.

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CAPITAL SYSTEMS GROUP, INC.
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April 1972
At his residence

金井塘

No theoretical assumptions will help us during an earthquake.

Brief History of the Author

1907 Born on July 25th in Hiroshima, Japan

1920 Graduated form the Primary School affiliated with Hiroshima Teachers College

1925 Graduated from the Hiroshima Middle School No. 1.

1928 Graduated form the Electrical Engineering Department, Hiroshima Technical College

1928 A member of Technical Staff under Professor Kubo at Hiroshima Technical College

1931 A member of the Technical Staff under Professor Sezawa, Earthquake Research Institute, The University of Tokyo

1934 Research Assistant, Earthquake Research Institute, The University of Tokyo

1941 Recieved Doctor of Engineering Degree from the Imperial University of Tokyo

1941 Technical Associate, Earthquake Research Institute, The University of Tokyo

1947 Lecturer, (First) Faculty of Engineering, The Imperial University of Japan.

1956 Recieved an award from the Japan Society of Architecture

1956 The Mainichi Newspaper Grant for Advancement of Science, Principal Investigator of the Research Group

1959 Visiting Professor at the University of California (for one year)

1961 Assistant Professor, University of Tokyo, Earthquake Research Institute

1963 Professor, University of Tokyo, Earthquake Research Institute

1965 The Toyo Rayon Research Grant, Principal Investigator of the Group

1967 Committee Chairman, The Japan Society of Seismology

1968 Retirement from the Professorship at the University of Tokyo

1968 Professor, Nihon University, School of Industrial Engineering

Foreword

Professor Kiyoshi Kanai retired from the Professorship at the University of Tokyo in March, 1968, having reached the mandatory retirement age of sixty in July of the previous year. He was immediately offered a professorship at Nihon University, and has since been concentrating there on research and teaching and enjoying his good health.

When Professor Kanai retired, those of us who had studied under him gathered together on this occasion and respectfully offered to express our appreciation in some appropriate manner. Professor Kanai firmly declined our offer. This was quite consistent with his usual humility, despite his remarkable academic achievement. This proposal of ours to commemorate his retirement was suspended during the turmoil caused by the intensified dispute between the faculty and students in the University of Tokyo. When we reactivated the pending proposal upon the settlement of the campus dispute and asked Professor Kanai to reconsider our offer, he casually mentioned that he had been compiling bibliography of earthquake engineering literature and this time he heartily agreed to accept our offer to assist in the publication of this bibliography, although we wondered whether there was a possibility that he had a more desirable plan.

We immediately organized the Commemorative Meeting for Professor Kanai's Retirement. When the objectives of the

publication plan were made public, a great number of people gave us their approval and financial assistance. Undoubtedly, this project must have overburdened Professor Kanai because of the painstaking effort needed to complete this difficult task. We are extremely happy to see the success of this venture, which resulted in the realization of this fine publication. We wish to express our gratitude to those who encouraged and assisted us in the project.

The Executive Committee for the Commemorative Meeting participated only in the editing of the indices. Therefore, if there are inadequacies or errors in the classification, the Executive Committee is completely responsible. We hope such problems, if any, will not greatly jeopardize the excellent quality of this bibliography.

Finally, we would like to express our appreciation to Mr. Okada of the Association for the Promotion of Scientific Bibliography, who understood the purpose of this project and agreed to our demands which at times may have been unreasonable.

April 1972

Hiroshi Tajimi
Representative
Executive Committee for
Commemorative Meeting

Preface

A pioneer in the field once said that the presentation of the results of studies should not be limited to those which were considered successful, but that the record of unsuccessful research should also have been made public and preserved, in order to save younger scientists from duplicating the effort. I have reservations in accepting such a point of view. If it is just a matter of their not repeating the same research, having been discouraged by their predecessor's failures, the harm may be minimal. I am afraid, however, that they may get discouraged enough to hesitate or even avoid extending their studies beyond the level which their predecessors had reached.

While thinking of these matters, another point of view comes to my mind: In general, academic work seems to progress by integrating new studies with results of many old studies and therefore it would not be wise to allow some overlooked studies to disappear forever. This point of view appears particularly appropriate in earthquake engineering since this field consists of three major elements, i.e., ground motion, building structures, and their interactions, each containing a complexity which does not exist in any other engineering field. Therefore, I use the expression "multiple complexities" to describe the difficulty in the study of earthquake engineering, and such complexitites make my question as posed above even more relevant.

I have been contemplating for some time the idea of

compiling the literature on earthquake engineering. In the process of tracing the development of earthquake engineering, however, I have always been apprehensive of this question of whether we should make more readiliy available the results of unsuccessful past studies. I have therefore been unable to make a decisive move toward such a project. However, my observation of Professor C.M. Duke of the University of California at Los Angeles during his stay in Japan ten years ago painstakingly compiling bibliographies, prompted my decision to begin the work. Since then, I have been trying to accomplish this goal although the progress has seemed to be at a snail's pace.

Several years ago, an offer to publish the collection of my scientific papers and related materials was presented to me in commemoration of my official retirement from the University of Tokyo. After considerable complications, I have accepted this kind offer, and the final agreement was made to publish this bibliography.

Since the nature of a commemorative project imposes a time limitation, I simply listed available documents as a preliminary step. This alone has taken many years. I apologize herewith that my poor estiamtion of the time needed for completion has caused some difficulties for those who supported the project. Although I have not yet given up the initial objectives of compiling a much more comprehensive bibliography, I must confess that I am beginning to lose confidence in completing such a project, partly because of the time limitation. Therefore, if this current bibliography may be of use in some manner along the line of my initial idea, I should be personally most happy.

I would like to take this opportunity to express my sincere gratitude to those who assisted me in this project. I owe a great deal not only to Dr. Hiroshi Tajimi but also to the executive committee members for financial assistance as well as for moral support. Special thanks to Drs. Yoshio Sakai, Yutaka Ohsawa and Kyoji Nakagawa who assisted me in moving the project forward; Drs. Hiroyoshi Kobayashi, Hiroshi Tajimi, Yutaka Ohsawa, Motohiko Hakuno for the article classification; Drs. Hiroyoshi Kobayashi and Teiji Tanaka as well as Mrs. Shizuyo Yoshizawa for the layout and the troublesome work of editing. I also appreciate the sincere support from the members of the Earthquake Research Institute, University of Tokyo, and the Faculty of the School of Industrial Engineering, Nihon University.

There may be some ommissions, errors and inadequacies in this bibliography. I would appreciate it very much if those who participated in this project would understand the particular circumstances in which the project was carried out and be tolerant of these imperfections.

April, 1972

Kiyoshi Kanai

CONTENTS

Notes by the Editor

1. This bibliography is a collection of as many as possible of the articles which were published up to 1971.

2. The order of article listing is based on that of the periodicals listed in the pages that immediately follow. The papers appearing in the same periodical are listed in chronological order, and those published under the same date are in the order of page numbers. Each article is listed under its unique four-digit identification number. These devices are used to make identification of particular articles easier by author's name and classification (to be introduced later).

3. The names of all coauthors of each article are listed. Studies and reports by organizations, committee or groups are, as a rule, listed under the names of such organizations, committees or groups, even though names of (co-) authors are known.

4. Deleted; not relevant to the English version.

5. In those periodical publications where consecutive page numbers are used in each volume, volume number, date of publication and page number of the article are listed. For all other cases, either "volume, number, date and page number" or "number, date and page number" are listed. Roman numerals in columns where volume or issue numbers are otherwise listed indicate the meeting number in case of proceedings of a conference, and the edition number in case of the journal "Jishin"

(Earthquake). The page number indicates only the first page in which the article begins, and when no page number appears, it means that the article was published as a single volume.

Source Publications and their Abbreviations

I.D. No.	Abbreviation	Full Title in English	Full Title in Japanese
* 1	Shin-yo-Choho	Report of the Imperial Eartnquake Investigation Committee.	震災予防調査会報告
* 2	Shin-yo-Oho	Publications of the Earthquake Investigation Committee in Foreign Languages.	震災予防調査会欧文報告
* 3	Shin-yo-Ohki	Bulletin of the Imperial Investigation Committee.	震災予防調査会欧文紀要
* 4	Shin-yo-Kanroku	The Imperial Investigation Committee Seismological Notes.	震災予防調査会観測録
* 5	Shinken-Iho	Bulletin of the Earthquake Research Institute.	地震研究所彙報
* 6	Shinken-Sokuho	Supplement Bulletin of the Earthquake Research Institute.	地震研究所彙報別冊
* 7	Shinken-Sokuho	Special Bulletin of the Earthquake Research Institute.	地震研究所研究速報
* 8	Saiken-Iho	Bulletin of the Disaster Prevention Research Institute.	防災研究所彙報
* 9	Saiken-Nenpo	The Disaster Prevention Research Institute Annals.	防災研究所年報
* 10	Saiken-Kinen	The Disaster Prevention Research Institute Bulletin Memorial Issue of the Fifth Anniversary. Nov., 1956.	防災研究所創立5周年記念論文集
* 11	Seisan-Kenkyu	Monthly Journal of the Institute of Industrial Science, University of Tokyo.	生産研究

I.D. No.	Abbreviation	Full Title in English	Full Title in Japanese
* 12	Kenshin-Jiho	Quarterly Journal of Seismology.	験震時報
* 13	Kenken-Hokoku	Report of the Building Research Institute.	建築研究報告
* 14	BIISEE	Bulletin of the International Institute of Seismology and Earthquake Engineering.	Bulletin of the International Institute of Seismology and Earthquake Engineering
* 15	Doken-Hokoku	Report of the Public Works Research Institute, Ministry of Construction.	土木研究所報告
16	Doshi-Shoho	Report of the Public Works Laboratory, Ministry of Construction.	土木試験所報告
* 17	Kogi-Hokoku	Report of the Port and Harbor Research.	港湾技術研究所報告
* 18	Tekken-Hokoku	Railway Technical Research Report.	鉄道技術研究報告
19	Denken-Hokoku	Report of Central Research Institute of Electric Power Industry.	電力中央研究所報告
20	Gakushin - 14	Report of 14th Subcommittee, Japan Society for Promotion of Science.	学術振興会第14小委員会報告
* 21	Jishin	Journal of the Seismological Society of Japan.	地　震
22	Kenchiku-Kenpo	Report of the Architectural Institute of Japan.	建築学会研究報告
* 23	Kenchiku-Rompo	Transactions of the Architectural Institute of Japan.	建築学会論文集，建築学会論文報告集
* 24	Kenchiku-Zasshi	Journal of Architecture and Building Science	建築雑誌
* 25	Kenchiku-Gijutsu	Building Engineering.	建築技術
* 26	Doboku-Ronbun	Proceedings of the Japan Society of Civil Engineers.	土木学会論文集，土木学会論文報告集

I.D. No.	Abbreviation	Full Title in English	Full Title in Japanese
* 27	Doboku-Kaishi	Journal of the Japan Society of Engineers.	土木学会誌
28	Doboku-Jishin	Proceedings of Earthquake Engineering Symposium of the Japan Society of Civil Engineers.	土木学会地震工学発表会講演概要
* 29	Tsuchi-To-Kiso	Soil Mechanics and Foundation Engineering	土と基礎
* 30	Obayashi-Kempo	Report of the Engineering Research Laboratory, Obayshi-Gumi, Ltd.	大林組技術研究所報
* 31	Kajima-Kempo	Annual Report of Kajima Institue of Construction Technology	鹿島建設技術研究所年報
* 32	Shimizu-Kempo	Report of the Research Laboratory of Shimizu Construction Co., Ltd.	清水建設研究所報
* 33	Takenaka-Giho	Takenaka Technical Research Report	竹中技術研究報告
* 34	Hazamagumi-Kempo	Technical Research Report of Hazama-Gumi, Ltd.	間組技術局研究年報
* 35	Chishitsu-Kogaku	Geotechnics	地質工学
* 36	Kokunai-Shimpo	Proceedings of Japan Earthquake Engineering Symposium.	日本地震工学シンポジウム講演集
* 37	WCEE	Proceedings of World Conference on Earthquake Engineering.	Proceedings of World Conference on Earthquake Engineering
38	Saigai-Ronbun	Proceedings of General Symposium on Disaster Prevention Science.	災害科学総合シンポジウム講演論文集

1. * The official English title currently recognized in Japan.

2. Those without asterisk are tentative English titles, translated by the editor of the English version of this bibliography.

Translator's Notes

1. A considerable effort has been expended on the part of the translation team to secure the English version of the title by author(s) of the article, if any, through the original reference. Those articles preceded by an asterisk in the following pages carry such English titles.

2. A complete listing of authors' names of these articles with symbol # is given on pp. 344 - 349.

3. When a paper collected in this bibliography appeared elsewhere in the Japanese literature to be translated under the current project, an effort was made to use the same title in English as much as possible. Identification should however be made by means of the page number, Volume number, year of publication, etc. of the original reference.

A

EARTHQUAKE

A - 1 Seismic Intensity and Seismic Intensity Scale

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0001	F. Ohmori	Report on Relationship Between Intensity and Damage of Ground Motion	1	21	1898	45
	0002	F. Ohmori	Overturning and Movement of a Body	1	32	1900	19
	0003	A. Imamura	Distribution of Seismic Intensity in Urban Areas of Tokyo and Osaka	1	77	1913	17
*	0004	F. Ohmori	Seismic Experiments on the Fracturing and Overturning of Columns	2	4	1900	69
*	0005	F. Ohmori	On the Overturning and Sliding of Columns (With Plates VII-XI)	2	12	1903	8
*	0006	F. Ohmori	Seismic Experiments on the Fracturing and Overturning of Columns (2nd Paper).	3	4	1910	1
*	0007	M. Ishimoto	Echelle d'intensite sismique et acceleration maxime. (en francais)	5	10	1932	614
*	0008	M. Ishimoto M. Ohtsuka	Determination de la limite perceptible des secousses. (en francais)	5	11	1933	113
*	0009	T. Matsuzawa	Ueber die Verschiebung von Komainu bei dem Tottori-Grossbeben	5	22	1944	60
*	0010	R. Ikegami F. Kishinouye	A Study on the Overturning of a Rectangular Column	5	24	1946	11
*	0011	R. Ikegami F. Kishinouye	A Study on the Overturning of Rectangular Columns in the Case of the Nankai Earthquake on December 21,1946	5	25	1947	49
*	0012	Y. Sato	Relation between Seismic Intensity and Epicentral Distance. (1)	5	26	1948	91

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0013	R. Ikegami F. Kishinouye	The Acceleration of Earthquake Motion Deduced from Overturning of the Gravestones in Case of the Imaichi Earthquake on Dec. 26, 1949.	5	28	1950	121
*	0014	T. Akima	Experiments on the Overturning of Circular Columns by the aid of a Shaking-Table.	5	28	1950	333
*	0015	F. Kishinouye	Human Susceptibility to Shock Vibrations of the Ground	5	33	1955	207
*	0016	Y. Sato	Relation between Seismic Intensity and Epicentral Distance.(2)	5	33	1955	211
*	0017	R. Yoshiyama	Maximum Amplitude and Epicentral Distance. A Proposed Theoretical Elucidation of Empirical Formulas and Some Development.	5	37	1959	389
*	0018	K. Kanai	A Short Note on Seismic Intensity and Seismic Intensity Scale.	5	45	1967	339
*	0019	R. Yoshiyama	Maximum Amplitude and Epicentral Distance. II. - Approach to Source Spectra of Earthquakes	5	46	1968	25
*	0020	Y. Tsuneishi	Movement of Grave-stones in Northeast Honshu and Hokkaido by the 1968 Off-Tokachi Earthquake	5	46	1968	1415
*	0021	T. Matsuda	Damage to Tombstones due to 1968 Tokachi-oki Earthquake in the Hachinohe Area, Aomori Prefecture.	5	46	1968	1425
	0022	H. Sato	Observation on Seismic Intensity, Damage Distribution and Subterranean Rumbling of the Disastrous Kita Tango Earthquake.	12	3	1927~1929	9
	0023	H. Kimura K. Iida	Motion of a Square Column.(1).	21	6	1934	125
	0024	H. Kimura K. Iida	Motion of a Square Column.(2).	21	6	1934	165

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0025	S. Haeno H. Kawasumi F. Kishinouye T. Matsuzawa T. Suzuki R. Yoshiyama	Change in Simple Bodies due to Very Strong Earthquake in Niijima.	21	9	1937	45
	0026	T. Saita	On the Characteristics of Earthquake Disaster in China and on the Seismic Intensity Inferred from Surviving High Towers.	21	10	1938	188
	0027	H. Kawasumi	Seismic Intensity and Seismic Intensity Scale	21	15	1943	6
	0028	H. Kawasumi	Seismic Intensity and Seismic Intensity Scale	21	15	1943	187
*	0029	N. Yamagishi	Instrumental Determination of the Intensity for the Matsushiro Swarm Earthquakes	21	II-22	1969	210
	0030	T. Usami	Seismic Intensity	24	885	1960	328
*	0031	T. Hatano	Intensity of Earthquake Affecting the Structure	26	6	1951	130
*	0032	G.A. Eiby	The Assessment of Earthquake Felt Intensities	37	III	1965	62
*	0033	G.W. Housner	Intensity of Earthquake Ground Shaking near the Causative Fault	37	III	1965	94
*	0034	S.V. Puchkov	On Intensity of Earthquakes on Rocky Grounds	37	III	1965	240
*	0035	S.V. Medvedev W. Sponheuer	Scale of Seismic Intensity	37	IV	1969	A2-143
			A - 2 Magnitude				
*	0036	T. Asada J. Suzuki Y. Tomoda	Notes on the Energy and Frequency of Earthquakes	5	29	1951	289
*	0037	T. Matsumoto	On the Spectral Structure of Earthquake Waves.- Its Influence on Magnitude Scale.	5	37	1959	265

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0038	T. Matsumoto	On the Spectral Structure of Earthquake Waves.- The Relation between Magnitude and Predominant Period.	5	38	1960	13
*	0039	K. Aki	Maximum Likelihood Estimate of b in the Formula log N = a-bM and its Confidence Limits.	5	43	1965	237
*	0040	H. Kanamori S. Miyamura	Seismometrical Re-Evaluation of the Great Kanto Earthquake of September 1, 1923	5	48	1970	115
*	0041	T. Usami I. Kayano	Relation between Magnitudes given by Kawasumi and J.M.A.	5	48	1970	923
*	0042	M. Ichikawa	Magnitude and Maximum Perceptible Distance of Earthquake.	12	25-3	1960	13
*	0043	O. Hamamatsu	The Location of Earthquake Disaster in Japan, Relation between the Earthquake Magnitude and the Damage - Statistical Studies on Earthquake Disaster (1) -	12	32-3,4	1969	51
*	0044	H. Hamana	On the Coefficient "α" determining Magnitudes of Earthquakes	12	32-3,4	1969	63
*	0045	T. Terashima	The Discrepancies between Many Kinds of Magnitudes Determined for the Earthquakes Occurred in and near Japan.	14	7	1970	93
*	0046	C. Tsuboi	Determination of the Gutenberg-Richter's Magnitudes of Earthquakes occurring in and near Japan	21	II-7	1954	185
*	0047	T. Asada	On Lower Limit of the Magnitudes of Earthquakes Accompanied by Aftershocks	21	II-8	1955	1
*	0048	A. Hayatsu	On the Decay Factor of Maximum Amplitude of Earthquake Motions	21	II-8	1955	75
*	0049	T. Nagamune	On the Azimuthal Deviation of Earthquake Magnitudes	21	II-11	1958	180
*	0050	I. Muramatsu	On the Equation to Define the Earthquake Magnitude	21	II-17	1964	210

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0051	M. Ohtsuka	Earthquake Magnitude and Surface Fault Formation	21	II-18	1965	1
*	0052	I. Muramatsu	Correction and Remarks of the Equation of Magnitude	21	II-19	1966	282
*	0053	K. Tsumura	Determination of Earthquake Magnitude from Duration of Oscillation	21	II-20	1967	30
	0054	T. Usami	Magnitude	24	885	1960	324
*	0055	G.W. Housner	Engineering Estimates of Ground Shaking and Maximum Earthquake Magnitude	37	IV	1969	A1-1
			A - 3 Seismicity				
	0056	F. Ohmori	On Recent Major Earthquakes Occurred in Various Regions of the World	1	57	1907	23
	0057	F. Ohmori	On Average Frequency of Major Earthquakes	1	57	1907	27
	0058	F. Ohmori	Epicenters of Recent Strong Motion Earthquakes in Japan.	1	57	1907	35
	0059	F. Ohmori	Major Earthquakes in and near Kyoto	1	57	1907	43
	0060	A. Imamura	Earthquake Zone in Kyushu District, Japan.	1	92	1920	1
	0061	A. Imamura	Earthquake Zone in Western Ou District.	1	95	1921	1
*	0062	T. Matsuzawa	Über die empirische Formel von Ishimoto und Iida $na^m = K$ zwischen der Bebenhaufigkeit n und der Amplitude a.	5	19	1941	411
*	0063	K. Kanai S. Yoshizawa	Distribution of Suffered Frequency of Earthquake Damage to House in Japan.	5	28	1950	167
*	0064	H. Kawasumi	Measures of Earthquake Danger and Expectancy of Maximum Intensity throughout Japan as Inferred from the Seismic Activities in Historical Times.	5	29	1951	469
*	0065	H. Kawasumi	On the Energy Law of Occurrence of Earthquake in Japan	5	30	1952	319

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0066	H. Kawasumi	Energy Law of Earthquake Occurrence in the Vicinity of Tokyo	5	30	1952	325
*	0067	T. Usami	Descriptive Table of Major Earthquakes in and near Japan which were Accompanied by Damages.	5	44	1966	1571
*	0068	K. Mogi	Regional Variations in Magnitude - Frequency Relation of Earthquake	5	45	1967	313
*	0069	R. Ikegami	On the Secular Variation of Magnitude - Frequency Relation of Earthquake.	5	45	1967	327
*	0070	K. Mogi	Regional Variation of Aftershock Activity	5	45	1967	711
*	0071	K. Kanai T. Suzuki	Expected Value of the Maximum Velocity Amplitude of Earthquake Motions at Bed Rock.	5	46	1968	663
*	0072	K. Mogi	Some Features of Recent Seismic Activity in and near Japan (2) Activity before and after Great Earthquakes	5	47	1969	395
*	0073	K. Mogi	Monthly Distribution of Large Earthquakes in Japan.	5	47	1969	419
*	0074	T. Usami S. Hisamoto	Future Probability of a Coming Earthquake with Intensity V or more in the Tokyo Area.	5	48	1970	331
*	0075	T. Usami S. Hisamoto	Future Probability of a Coming Earthquake with Intensity V or more in the Kyoto Area.	5	49	1971	115
*	0076	Y. Kishimoto	Investigation of Seismicity	9	12-A	1969	1
*	0077	S. Okamoto T. Tanuma	Investigation of Recent Seismic Activity of the Pacific Coast of Southwest Japan.	11	22	1970	204
*	0078	O. Hamamatsu	Outlines of the Disastrous Tsunamis and Earthquakes occurred during 1948-1963 in the World.	12	30-2	1966	21
*	0079	K. Hashimoto	On the Areal Distribution of Seismic Intensity in the Central Area of Akita City.	12	32-3,4	1969	67
*	0080	H. Sekiya	On the Seismic Activity in the Southern Part of Kanto	12	36-1,2	1971	13

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0081	V. Kárník	Magnitude-Frequency Relation and Seismic Activity in Different Regions of the European Area	14	1	1964	9
* 0082	P.M. Welkner	Statistical Analysis of Earthquake Occurrence in Japan, 1926-1956	14	2	1965	1
* 0083	S. Omote T. Santo R. Teisseyre E. Vesanen	Regional Characteristics Related to Seismic Activity in and around Japan as Deduced from Different Geophysical Surveys	14	3	1966	81
* 0084	P.M. Welkner	On the Space Distribution of Some Seismic Parameters in Japan, Part I.	14	4	1967	1
* 0085	T. Ohkubo T. Terashima	The Zoning Map of Earthquake Risk	15	138	1970	1
0086	C. Iwanishi	On the Seismic Zone in Kii Nagusa Area	21	3	1931	257
0087	T. Saita	Seismic Activity and Culture	21	8	1936	271
0088	T. Kodaira	The Table of Strong Motion Earthquake Felt in Tokyo	21	9	1937	492
0089	A. Imamura	On the Ancient Seismic Activity in the Ou Area	21	11	1939	168
0090	A. Imamura	On the Ancient Earthquakes in Japan.	21	15	1943	114
* 0091	G. Kitazawa	Distribution of Seismic Intensities in the Down-Town of Tokyo.	21	II-3	1950	32
* 0092	I. Muramatu	Expression of Earthquake Danger with Due Consideration of the Vibrational Characteristics of Earthquake Motion(Estimation of Earthquake Danger, Part 1)	21	II-15	1962	108
* 0093	M. Katsumata	Regional Characteristics of Magnitude Distribution of Earthquakes (I)	21	II-18	1965	219
* 0094	M. Katsumata	Regional Characteristics of Magnitude Distribution of Earthquakes (II)	21	II-19	1966	1

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0095	T. Utsu	Abnormal Distributions of Seismic Intensities and Regional Differences in Absorption of Seismic Waves	21	II-19	1966	226
*	0096	M. Katsumata	Seismic Activities in and near Japan (III) - Seismic Activities Versus Depth	21	II-20	1967	75
*	0097	S. Kanda	History of Large Earthquakes in Kanagawa Prefecture	21	II-21	1968	139
*	0098	S. Kanda	On the Large Earthquakes Table in Japan of "Rika-Nenpyo"	21	II-21	1968	141
*	0099	S. Kanda	Large Earthquake of Tosa, Japan, in 1099.	21	II-21	1968	142
*	0100	R. Ikegami	On the Secular Variation of Magnitude-Frequency Relation of Earthquakes (II)	21	II-21	1968	190
*	0101	T. Yumura	On the Japanese Calendar of the Disastrous Earthquakes in and near Japan	21	II-22	1969	253
*	0102	T. Yumura T. Hirono K. Wadachi	The Structure of Seismic Zones in and near Japan	21	II-23	1970	99
*	0103	R. Ikegami	On the Secular Variation of Magnitude-Frequency Relation of Earthquakes (III)	21	II-23	1970	122
*	0104	H. Kawasumi	Regional Distribution of Earthquake Hazard in Japan.	24	773	1951	3
*	0105	H. Kawasumi	On the Earthquake-stricken Areas and their Underground Formation in Tokyo; Appendix-Underground Formation of Osaka Observed through Boring Tests.	24	773	1951	8
*	0106	K. Kanai	Distribution Study of Degree of Building Damages in Earthquake-stricken Areas	24	773	1951	16
*	0107	H. Goto H. Kameda	A Statistical Study on the Maximum Ground Motions in Strong Earthquakes	26	159	1968	1
	0108	H. Kawasumi	On the Expected Value of Seismic Intensity	28	III	1959	45

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0109	T. Hirono	Earthquakes in Japan	28	IV	1960	21
	0110	S. Miyamura	On the Seismic Activities in Japan.	28	V	1961	41
	0111	H. Goto H. Kameda	Statistical Inference of the Future Maximum Ground Motion	28	IX	1967	71
*	0112	I. Muramatu	Estimation of the Earthquake Risk with Due Consideration on the Vibrational Characteristics of Ground Motion.	36	I	1962	7
*	0113	T. Hirono	Seismicity of Japan	37	II	1960	1511
*	0114	I.D.Dick	Extreme Value Theory and Earthquakes	37	III	1965	45
*	0115	W.G.Milne A.G.Davenport	Statistical Parameters Applied to Seismic Regionalization	37	III	1965	181
*	0116	H. Goto H. Kameda	Statistical Inference of the Future Ground Motion	37	IV	1969	A1-39
*	0117	W.G.Milne A.G.Davenport C.A.Cornell	Earthquake Probability	37	IV	1969	A1-55
*	0118	E.H.Vanmarcke	The Major Influence on Seismic Risk	37	IV	1969	A1-69
	0119	K. Iida	On an Earthquake Occurrence Series and Deformation of the Ground in Nobi-Mikawa Region	38	I	1964	13
	0120	I. Matsumura	Distribution of Maximum Velocity of Ground Motion throughout Japan, anticipated in Future 50 Years	38	II	1965	201
	0121	T. Minakami	Earthquakes Occurred in Ebino Area and Activity of Kirishima Volcano	38	V	1968	183
	0122	K. Noritomi Y. Saeki	Depth Distribution of Off-Akita Prefecture Earthquake	38	VII	1970	35
	0123	T. Utsu	On Seismic Activities of Large Earthquakes in and near Hokkaido and Off-Southern Nemuro	38	VIII	1971	129

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0124	T. Nakano H. Kadomura E. Matsuda T. Tamura	Regional Characteristics of Earthquake Damage Distribution - on the Basis of the Example in Shizuoka Prefecture	38	VIII	1971	143
			A - 4 Crustal Deformation				
			A - 4 - 1 Movements of the Earth's Crust				
*	0125	Land Survey Department	The Change of Elevation of Land Caused by the Great Kantoh Earthquake of September 1st, 1923.	5	I	1926	65
*	0126	C. Tsuboi	An Interpretation of the Results of the Repeated Precise Levellings in the Tango District after the Tango Earthquake in 1927	5	6	1929	71
*	0127	C. Tsuboi	Investigation on the Deformation of the Earth's Crust in the Tango District Connected with the Tango Earthquake in 1927 (Part 4)	5	10	1932	411
*	0128	C. Tsuboi	Notes on the Mechanical Strength of the Earth's Crust	5	11	1933	275
*	0129	T. Nagata A. Okada	Land Deformation of the Cape Muroto before and after the Nankaido Great Earthquake on Dec. 21, 1946	5	25	1947	85
*	0130	T. Hagiwara T. Rikitake J. Yamada	Observations of the Deformation of the Earth's Surface at Aburatsubo, Miura Peninsula. Part I.	5	26	1948	23
*	0131	T. Hagiwara T. Rikitake K. Kasahara J. Yamada	Observations of the Deformation of the Earth's Surface at Aburatsubo, Miura Peninsula. Part II.	5	27	1949	35
*	0132	T. Hagiwara T. Rikitake K. Kasahara J. Yamada	Observations of the Deformation of the Earth's Surface at Aburatsubo, Miura Peninsula. Part III.	5	27	1949	39
*	0133	T. Hagiwara T. Rikitake	Observation of the Deformation of the Earth's Surface in the Vicinity of Epicentres of the Imaichi Earthquake.	5	28	1950	435

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0134	T. Hagiwara K. Kasahara J. Yamada S. Saito	Observation of the Deformation of the Earth's Surface at Aburatsubo, Miura Peninsula. Part IV.	5	29	1951	455
* 0135	T. Hagiwara K. Kasahara	Observation of the Deformation of the Earth's Surface at Aburatsubo, Miura Peninsula. Part V.	5	29	1951	557
* 0136	A. Okada T. Nagata	Land Deformation of the Neighbourhood of Cape Muroto after the Nankaido Great Earthquake in 1946	5	31	1953	169
* 0137	A. Okada	Land Deformation Accompanied by Nagaoka Earthquake, Feb. 2nd, 1961	5	39	1961	537
* 0138	A. Okada	Some Investigations on the Characteristics of Crustal Deformation.	5	40	1962	431
* 0139	A. Okada S. Izutsuya	Land Deformation of the Northern Miyagi Earthquake on April 30th, 1962.	5	40	1962	645
* 0140	T. Matsuda M. Sibano	The Shizuoka-Shimizu Earthquake of April 20, 1965, and "the Seismological Blocks" Exposed by the Earthquake.	5	43	1965	625
* 0141	K. Kasahara A. Okada M. Shibano K. Sasaki S. Matsumoto	Electro-Optical Measurement of Horizontal Strains Accumulating in the Swarm Earthquake Area (3)	5	45	1967	225
* 0142	I. Tsubokawa A. Okada H. Tajima I. Murata K. Nagasawa S. Izutsuya Y. Ito	Levelling Resurvey Associated with the Area of Matsushiro Earthquake Swarms. (1)	5	45	1967	265

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0143	T. Ichinohe M. Takada T. Tanaka T. Furuzawa M. Kato M. Koizumi M. Yamada	Continuous Observations of the Ground Deformations Related to the Matsushiro Earthquakes	8	17-1	1967	49
* 0144	E. Nishimura Y. Tanaka T. Tanaka	On Anomalous Crustal Deformation Observed before Some Recent Earthquakes (Part 1)	9	5-A	1961	28
* 0145	Y. Kishimoto T. Tanaka	Study on Relation between the Local Earthquakes and the Minute Ground Deformation at Wakayama (Part 2)	9	6	1962	17
* 0146	E. Nishimura Y. Tanaka	On Anomalous Crustal Deformation Observed Before Some Recent Earthquakes (Part II)	9	7	1963	66
* 0147	Y. Tanaka	On the Stages of Anomalous Crustal Movements Accompanied with Earthquake	9	8	1964	91
* 0148	T. Tanaka T. Mikumo	Study on Relation Between the Local Earthquakes and the Minute Ground Deformation at Wakayama (Part 4).	9	9	1965	81
* 0149	Research Section of Crustal Movement	Report on the International Cooperative Observations of the Crustal Movements Related to Seismic Activities (Preliminary Report)	9	10-A	1967	77
* 0150	Y. Tanaka M. Koizumi M. Kato	Crustal Movements Related to the Seismic Activity in Restricted Area (1) - Relation between the Seismic Activity in the Outer Zone of the Tohoku District and the Tilting Movements Observed at the Hosokura Station	9	10-A	1967	123
* 0151	T. Tanaka	Study on Relation between the Local Earthquakes and the Minute Ground Deformation at Wakayama (Part 5)	9	10-A	1967	149
* 0152	Y. Tanaka M. Kato Y. Ito	Crustal Movements Related to the Seismic Activity in a Restricted Area (2)- Relation between the Seismic Activity in the Eastern Part of Tohoku District and the Crustal Movements Observed at the Izu-Nagaoka Station.	9	11-A	1968	9

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0153	Y. Tanaka M. Koizumi J. Miyakoshi	Crustal Movements Related to the Seismic Activity in a Restricted Area (3)-Relation between the Seismic Activity in the Eastern Part of San'in District and the Crustal Movements Observed at the Tottori-Momoya Station.	9	11-A	1968	23
* 0154	I. Ozawa	Observations of Crustal Deformation before and after the Earthquakes at Kamiwachi and Kyoto City	9	12-A	1969	123
* 0155	Y. Tanaka M. Kato M. Koizumi	Crustal Movements Related to the Seismic Activity in Restricted Area (4) - Relation between the Seismic Activity in the Northwestern Part of the Chubu District and the Crustal Movements Observed at the Ogoya Station	9	12-A	1969	155
* 0156	Y. Tanaka M. Koizum M. Kato	Crustal Movements Related to the Seismic Activity in a Restricted Area (5) - Relation between the Seismic Activity in the Northern Part of Kinki District and the Crustal Movement Observed at the Ikuno Station	9	13-A	1970	91
* 0157	E. Nishimura	On Change of State of the Properties in the Earth's Crust with Relation to Seismic Activity	10		1956	8
* 0158	I. Ozawa	On the Observation of Crustal Deformation in Osakayama	10		1956	14
* 0159	T. Kodaira	On the Ground Deformation due to Earthquake	21	1	1929	401
0160	A. Imamura	On the Ground Deformation due to the Large Earthquake of Off-Nankaido in April, Kanei 4th Year (1627).	21	2	1930	81
0161	Y. Fujii	Crustal Deformation in Izu Peninsula	38	V	1968	177
0162	K. Uragami I. Yokoyama N. Den H. Hotta	Investigation of Crust Displacement near Cape Erimo and Sea Floor Alluvium near Epicenter.	38	V	1968	179
0163	R. Tsuchi	Relationship among the Diluvium Crustal Deformation Ground Displacement Observed from the Bench Mark and the Crustal Deformation due to Earthquake in Tokai Area.	38	VII	1970	25

No.	Author	Title	Source	No. or Vol.	Date	Page
A - 4 - 2 Landslide						
0164	A. Imamura	Report on the Investigation of Landslide in the Nefugawa Area	1	100-B	1925	85
* 0165	N. Miyabe	A Study of Landslides	5	13	1935	85
* 0166	R. Morimoto J. Osaka T. Fukuda	Geology of Imaichi District with Special Reference to the Earthquake of Dec. 26, 1949 (III)	5	35	1957	359
* 0167	Y. Takada	A Geophysical Study of Landslides (Application of the Electrical Resistivity Survey to Landslides)	5	18-2	1968	37
* 0168	Y. Takada	A Geophysical Study of Landslides (Mechanism of Landslides)	5	18-2	1968	59
* 0169	Y. Kobayashi	Mechanism of Earthquake Damage to Embankments and Slopes	21	II-21	1968	178
0170	Y. Kobayashi	On Earthquake Damage to the Embankments and Slopes.	28	IX	1967	95
0171	Society of Soil and Ground Engineers	Summary of the Investigation Report on Earthquake Damage to the Supporting Ground due to Off-Tokachi Earthquake in 1968.	29	16-9	1968	5
0172	M. Saito	Relationship between Soil Characteristics and Damage Caused by Off-Tokachi Earthquake in 1968	29	16-9	1968	19
0173	F. Kawakami, et al	On Damage to the Supporting Ground and the Foundations Located in Aomori Prefecture due to Off-Tokachi Earthquake in 1968.	29	16-9	1968	31
0174	Society of Soil and Ground Engineers	Ebino Earthquake and Damage to the Supporting Ground.	29	16-9	1968	47
0175	R. Morimoto, et al.	Landslides and Underground Water Seepage in the Seismic Region of Matsushiro Swarm Earthquakes.	38	IV	1967	106
0176	F. Kawakami	On the Landslide Disaster Occurred in Southern Aomori Prefecture due to Off-Tokachi Earthquake, 1968	38	V	1968	11

No.	Author(s)	Title	Source	No. or Vol.	Date	Page
0177	K. Kuroda T. Kakimi T. Ando	Some Observations on the Collapse of Buildings due to Landslide in the Southeastern Part of Aomori Prefecture caused by Off-Tokachi Earthquake in 1968.	38	V	1968	137
0178	M. Ueda	Landslide due to Ebino Earthquake	38	V	1968	195
A - 4 - 3 Other Ground Deformations						
*0179	D. Shimozuru	Change of the Underground Water Level due to the Imaichi Earthquake.	5	28	1950	129
*0180	N. Miyabe S. Kawasima	Change in the Water Level of a Well and Aftershock.	6	3	1936	93
0181	T. Rikitake	Changes Which Occurred in the Dogo Hot Spring due to the Nankai Earthquake.	7	5	1947	189
0182	I. Murai	The Relationship between the Tectonics of the Niigata Plain, especially the Geographical and Geolgoical Change, and the Earthquake Damage.	7	8	1964	70
0183	N. Yamagishi	The Relationship between the Rise and Fall of Seismic Activity and the Fissure and Underground Water Seepage due to the Matsushiro Earthquake.	38	IV	1967	154
0184	Dept. of Mining, Faculty of Geology, Hokkaido University	Relationship between Soil Characteristics and Damage due to Ground (Terrestial) Upheaval caused by the Off-Tokachi Earthquake in 1968.	38	V	1968	135
0185	T. Kosaka R. Morimoto H. Takahashi	Abnormal Phenomenon of Underground Water Seepage Accompanied by Matsushiro Swarm Earthquake.	38	VI	1969	83
0186	Y. Kitano S. Okuda R. Yoshioka	Chemical Components of Underground Water Seepage from the Landslide Area of Matsushiro Swarm Earthquake.	38	VI	1969	85
0187	R. Morimoto Y. Tsuneishi H. Takahashi	Earthquake and Hot Spring of Kutsugahara in the Northern Part of Hiroshima Prefecture.	38	VII	1970	29

No.	Author	Title	Source	No. or Vol.	Date	Page
		A - 5 Fault				
		A - 5 - 1 Fault Phenomenon				
* 0188	F. Ohmori	Comparison of the Faults in the Three Earthquakes of Mino-Owari, Formosa and San Francisco	3	1	1907	70
* 0189	A. Imamura F. Kishinouye	On the Horizontal Shift of the Dislocation Accompanied by the Recent Destructive Earthquakes in the Kanto District and in Tango Province	5	5	1928	35
* 0190	S. Fujiwara T. Takayama	On Crack Initiation Systems, especially on Echelon Formation.	5	9	1931	50
* 0191	G. Nishimura T. Takayama	Some Experiments on Crack Formation in a Glass Plate	5	10	1932	476
* 0192	T. Hagiwara	Movement along the Fault that Appeared in the Tottori Earthquake and the Change in the Inclination of the Earth's Surface	5	22	1944	66
* 0193	T. Nagata	Variation in Earth-Current in the Vicinity of the Shikano-fault.	5	22	1944	72
* 0194	H. Tsuya	The Deep Ditch Fault: A Remarkable Earthquake Fault formed during the Mikawa Earthquake of January 13, 1945	5	24	1946	59
* 0195	N. Nasu	Block Movement along the Seismic Fault (1). (Fukui Fault and Others)	5	27	1949	27
* 0196	N. Nasu	Block Movement along the Seismic Fault (2).	5	29	1951	283
* 0197	K. Kasahara	Physical Conditions of Earthquake Faults (as) Deduced from Geodetic Data	5	36	1958	455
* 0198	F. Kishinouye H. Kobayashi	A Submarine Fault Line found near Awashima after the Japan Sea Earthquake on June 16, 1964	5	43	1965	205
* 0199	I. Murai	Fracture Systems developed on the Island, Awashima, near the Epicenter of the Niigata Earthquake in 1964	5	43	1965	611

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0200	I. Murai	The Fracture System developed in the Vicinity of Katsuura, the Boso Peninsula	5	43	1965	829
* 0201	K. Nakamura Y. Tsuneishi	Ground Cracks at Matsushiro Probably of Underlying Strike - slip Fault Origin, I - Preliminary Report.	5	44	1966	1371
* 0202	R. Morimoto K. Nakanura Y. Tsuneishi J. Osaka N. Tsunoda	Landslides in the Epicentral Area of the Matsushiro Earthquake Swarm - Their Relation to the Earthquake Fault.	5	45	1967	241
* 0203	K. Nakamura Y. Tsuneishi	Ground Cracks at Matsushiro Probably of Underlying Strike - slip Fault Origin, II - The Matsushiro Earthquake Fault.	5	45	1967	417
* 0204	T. Matsuda	Geological Aspect of the Matsushiro Earthquake Fault	5	45	1967	537
* 0205	Y. Tsuneishi K. Nakamura	Faulting Associated with the Matsushiro Swarm Earthquake	5	48	1970	29
* 0206	Y. Ohtuka	The Earthquake of Central Taiwan (Formosa), April 21, 1935, and Earthquake Faults. (Resume- Characteristics of Earthquake Faults).	6	3	1936	22
0207	S. Kunitomi	Faults that Appeared in the Violent Earthquake Which Occurred in the Northern Part of Tango District, Japan.	12	3	1927-1929	43
0208	S. Kunitomi	The General Aspect of the Fault that Appeared in the Kita (North) Izu) Earthquake.	12	4	1930-1931	301
0209	S. Takagi I. Noe	The Fault that Appeared in the Tottori Earthquake on Sept. 10, 1943.	12	14-2	1948	3
0210	M. Ishimoto	On Earthquake Faults	21	8	1936	284
* 0211	S. Komura	On Relations between the Ishimoto-Iida Statistical Formula and Some Crack-Phenomena	21	II-8	1955	80
* 0212	H. Miki H. Watanabe M. Shimada	Observations of Ultra Microearthquakes in the Vicinity of Neo Valley Fault in Central Honshu, Japan	21	II-18	1965	103

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0213	D. Tocher	Movement on Faults	37	II	1960	551
0214	Y. Tsuneishi	Recent Dispalcement of the Fault Formed by Matsushiro Earthquake.	38	V	1968	173
A - 5 - 2 Theory of Fault						
* 0215	K. Sezawa K. Kanai	The Plasticity Conditions for the Formation of Normal and Reverse Faults. II.	5	18	1940	11
* 0216	K. Sezawa K. Kanai	A Fault Surface or a Block Absorbs Seismic Wave Energy	5	18	1940	465
* 0217	K. Kasahara	Physical Conditions of Earthquake Faults. II. (A Model of Strike-slip Faults with Various Dip Angles.)	5	37	1959	39
* 0218	K. Kasahara	A Strike-slip Fault Buried in a Layered Medium.	5	42	1964	609
* 0219	H. Kanamori	Faulting of the Great Kanto Earthquake of 1923 as Revealed by Seismological Data	5	49	1971	13
* 0220	I. Alpan R. Teisseyre	The Energy Balance in Faults	14	3	1966	53
* 0221	G.E. Fiedler	Some Notes on Earthquake Faults, Magnitude and Strain Energy	14	4	1967	47
* 0222	N.N. Ambraseys	Maximum Intensity of Ground Movements caused by Faulting	37	IV	1969	A2-154
A - 6 Tsunami						
A - 6 - 1 Experiment on Tsunami						
* 0223	R. Takahasi T. Hatori	A Model Experiment on the Tsunami Generation from a Bottom Deformation Area of Elliptic Shape.	5	40	1962	873
* 0224	I. Aida T. Hatori M. Koyama K. Kajiura	A Model Experiment on Long-Period Waves Travelling along a Continental Shelf.	5	46	1968	707
* 0225	I. Aida	Numerical Experiments for the Tsunami Propagation - the Niigata Tsunami in 1964 and the Tokachi-oki Tsunami in 1968.	5	47	1969	673

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0226	I. Aida	A Numerical Experiment for the Tsunami Accompanying the Kanto Earthquake of 1923	5	48	1970	73
* 0227	H. Matsuo	Experimental Investigation on Prevention of Damage of Tsunami.	6	1-1	1934	65
* 0228	R. Takahasi	A Model Experiment on the Mechanism of Seismic Sea Wave Generation. (1st Report).	6	1-1	1934	152
* 0229	G. Nishimura T. Takayama	Experimental Study on the Propagation of Tsunami Waves. (Part I).	6	1-1	1934	232
* 0230	Y. Iwagaki Y. Tsuchiya S. Nakamura	Tsunami Model Experiment of Kochi Harbour	9	13-B	1970	471
0231	H. Matsuo	Model Test for the Ultimate Purpose on Alleviating Tsunami Damage.	16	27	1934	49
0232	H. Matsuo	Model Test for the Ultimate Purpose of Alleviating Disasters due to Tsunami in and near Osaka Port.	16	36	1936	81
* 0233	A. Shibayama H. Kimura K. Takemura	A Model Experiment on the Tsunami Breakwaters at the Port of Kochi	17	3-2	1964	1
* 0234	T. Asada T. Hosokawa	A Model Experiment on the Effects of Jetties Constructed in a Waterway with Uniform Width	17	3-2	1964	65
* 0235	H. Kimura K. Kudo A. Shibayama	A Model Experiment on the Tsunami Breakwaters at the port of Kochi. (3rd Report).	17	7-2	1968	3
* 0236	Y. Ito K. Tanimoto T. Kihara	Digital Computation on the Effect of Breakwaters Against Long-Period Waves (4th Report) - on the Effect of Ofunato Tsunami Breakwater against the Tsunami Caused by the Earthquake on May 16, 1968	17	7-4	1968	55
* 0237	Y. Ito K. Tanimoto T. Kihara	Digital Computation on the Effect of Breakwaters Against Long-Period Waves (5th Report) - For the Case of Hachinohe Port.	17	8-3	1969	19

No.	Author	Title	Source	No. or Vol.	Date	Page
0238	Y. Iwagaki Y. Tsuchiya S. Nakamura	Model Test by Tsunami Producing Instrumentation	38	VI	1969	111
A - 6 - 2 Investigation of Tsunami						
0239	A. Imamura	Investigation of Sanriku Tsunami	1	29	1899	17
0240	F. Ohmori	On Tsunami in Japan	1	34	1901	5
0241	F. Ohmori	On Tsunami Accompanied by Violent Explosion of "Krakatou" in 1883	1	56	1907	29
0242	F. Ohmori	On Tsunami in the Tokyo Bay	1	89	1918	19
0243	T. Terada S. Yamaguchi	Investigation Report on the Propagation of Tsunami Waves Originated from the Sagami Bay	1	100-B	1925	113
* 0244	N. Miyabe	Tsunami Associated with the Sanriku Earthquake that Occurred on November 3, 1936	5	15	1937	837
* 0245	F. Kishinouye K. Iida	The Tsunami Accompanied by the Oga Earthquake of May 1, 1939	5	17	1939	733
* 0246	S. Omote	On the Central Area of Seismic Sea Waves	5	25	1947	15
* 0247	N. Nasu T. Shirai	Local Phenomena of Tsunami (Part 1)	5	25	1947	81
* 0248	D. Shimozuru T. Akima	Reflections on the Tsunami of December 21, 1946	5	30	1952	223
* 0249	R. Takahasi I. Aida	Studies on the Spectrum of Tsunami	5	39	1961	523
* 0250	R. Takahasi T. Hatori	On the Tsunami Accompanied by the Hyuganada Earthquake of Feb. 27, 1961	5	39	1961	561
* 0251	I. Aida	Design and Construction of Long-period Wave Recorders	5	40	1962	545
* 0252	T. Hatori	On the Tsunamis along the Islands of Hawaii	5	41	1963	49

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0253	T. Hatori	Directivity of Tsunamis	5	41	1963	61
*	0254	R. Takahasi I. Aida	Spectra of Several Tsunamis observed on the Coast of Japan	5	41	1963	299
*	0255	T. Hatori R. Takahasi	On the Iturup Tsunami of Oct. 13, 1963, as Observed along the Coast of Japan	5	42	1964	543
*	0256	S.L. Solov'ev	The Urup Earthquake and Associated Tsunami of 1963	5	43	1965	103
*	0257	T. Hatori	On the Tsunami Accompanied by the Niigata Earthquake of June 16, 1964 - Source Deformation, Propagation and Tsunami Run-up.	5	43	1965	129
*	0258	T. Hatori	On the Tsunami Accompanied by the Earthquake off the Northwest of Oga on May 7, 1964	5	43	1965	149
*	0259	T. Hatori	On the Alaska Tsunami of March 28, 1964, as Observed along the Coast of Japan.	5	43	1965	399
*	0260	T. Hatori	Study on Distant Tsunamis along the Coast of Japan. Part 1, Distribution of Tsunami Energy and Travel Time.	5	43	1965	499
*	0261	T. Hatori	On the Possibility of Tsunami Generation at the Time of the Earthquake near Shizuoka on April 20, 1965.	5	43	1965	607
*	0262	T. Hatori	On the Aleutian Tsunami of February 4, 1965, as observed along the Coast of Japan.	5	43	1965	773
*	0263	T. Hatori	Vertical Displacement in a Tsunami Source Area and the Topography of the Sea Bottom.	5	44	1966	1449
*	0264	T. Hatori	Study on Distant Tsunamis along the Coast of Japan. Part 2, Tsunamis of South American Origin.	5	46	1968	345
*	0265	T. Hatori	A Study of the Wave Sources of the Hyuganada Tsunamis	5	47	1969	55
*	0266	T. Hatori	Dimensions and Geographic Distribution of Tsunami Sources near Japan.	5	47	1969	185

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0267	T. Hatori	Study on Distant Tsunami along the Coast of Japan. Part 3. Tsunamis of Philippines and Indonesia Origin.	5	47	1969	523
*	0268	T. Hatori	A Study of the Wave Source of Tsunami generated off West Hokkaido on Aug. 2, 1940	5	47	1969	1063
*	0269	T. Hatori	Vertical Crustal Deformation and Tsunami Energy	5	48	1970	171
*	0270	T. Hatori	An Investigation of the Tsunami generated by the East Hokkaido Earthquake of August, 1969	5	48	1970	399
*	0271	T. Hatori	Tsunami Sources in Hokkaido and Southern Kuril Regions	5	49	1971	63
*	0272	T. Hatori M. Koyama	Travel Times of Tsunamis and Refraction Diagrams at the Pacific Coast of Japan.	5	49	1971	127
*	0273	M. Ishimoto T. Hagiwara	The Tsunami Considered as a Phenomenon of Sea Water Overflowing the Land.	6	1	1934	17
*	0274	S. Yamaguchi	Abnormally High Waves or "Tsunami" on the Coast of Sanriku in Japan, on March 3, 1933	6	1	1934	36
*	0275	H. Matsuo	Estimation of Energy of Tsunami and Protection of Coasts.	6	1	1934	55
*	0276	R. Takahasi	Seiches and Surface Waves in Ohunato Bay and two other Bays.	6	1	1934	198
*	0277	O. Sakai	The Ibaraki-oki Earthquake and Tsunami of Jan. 16, 1961	12	26-3	1961	1
*	0278	T. Matsuzawa	Directivity of Tsunami	21	9	1937	23
*	0279	T. Hatori	The Generating Area of Sanriku Tsunami of 1896 and its Comparison with the Tsunami of 1933.	21	II-20	1967	164
*	0280	T. Hatori	The Magnitude of Tsunami generated in Hyuganada during the Years, 1926-1970	21	II-24	1971	95
*	0281	A. Imamura	On "Tsunami"	24	566	1933	885
	0282	K. Ichikawa	Urban Planning and Tsunami	24	891	1960	633

No.	Author	Title	Source	No. or Vol.	Date	Page
0283	H. Takahashi	On the Preventive Measure for Tsunami Damages from the View Point of Coastal Engineering.	24	891	1960	635
0284	F. Ohmori	Tsunami in the Tokyo Bay	27	4	1918	439
0285	I. Hiroi	On the Estimation Method for Wave Forces.	27	6	1920	435
0286	S. Nakamura	On Tsunami in the Osaka Bay	27	6	1920	925
0287	R. Takahashi	Some Problems in Tsunami	28	III	1959	51
* 0288	R. Takahashi	Some Problems in Tsunami	35	4	1966	49
0289	Y. Hashimoto	Disasters at Ports, Harbors and Coasts in Wakayama Prefecture (II)	38	II	1965	35
0290	K. Kajiura	The State of the Art and Unresolved Problems in the Research on Tsunami Induced High Tide.	38	II	1965	233
0291	H. Miyoshi	Various Problems in Tsunami	38	III	1966	151
0292	Faculty of Science, Tohoku University	Wave Source and Wave Height of Tsunami due to Off-Tokachi Earthquake of 1968	38	V	1968	5
0293	H. Miyoshi	On Tsunami (II)	38	V	1968	117
0294	H. Miyoshi	On Tsunami (III)	38	V	1968	119
0295	T. Iwasaki H. Togashi H. Sato	Tsunami and its Reflection within the Bay (Characteristics of Off-Tokachi Tsunami in 1968)	38	V	1968	125
A - 6 - 3 Theory of Tsunami						
* 0296	K. Sezawa K. Kanai	Predominant Periods of Oscillation in Tidal Waves.	5	15	1937	888
* 0297	R. Takahasi	Motion of the Bay Water caused by Seismic Sea Waves	5	25	1947	1
* 0298	R. Takahasi	On Seismic Sea Waves caused by Deformations of the Sea Bottom. The 3rd Report. The One-Dimensional Source	5	25	1947	5

No.	Auth	Title	Source	No. or Vol.	Date	Page
* 0299	N. Nasu	Local Phenomena of Tsunami (Part 1)	5	26	1948	27
* 0300	R. Takahasi	An Estimate of Future Tsunami Damage Along the Pacific Coast of Japan.	5	29	1951	71
* 0301	T. Momoi	The Directivity of Tsunami (1) The Case of Instant-aneously and Uniformly Elevated Elliptic Wave Origin.	5	40	1962	297
* 0302	T. Momoi	General Method of Treatment of Tsunami Caused by the Displacement of a Portion of the Bottom with an Arbitrary Form.	5	40	1962	309
* 0303	T. Momoi	The Effects of Coastlines on the Tsunami (1) and some Remarks on The Chilean Tsunami	5	40	1962	719
* 0304	T. Momoi	The Effects of Caostlines on the Tsunami (2) and some Remarks on the Chilean Tsunami	5	40	1962	733
* 0305	T. Momoi	The Effects of Coastlines on the Tsunami (3)	5	40	1962	747
* 0306	T. Momoi	The Directivity of Tsunami (2): The Case of Instant-aneously and Uniformly Elevated Square Wave Origin.	5	40	1962	759
* 0307	T. Momoi	Some Remarks on Generation of Waves from Elliptical Wave Origin	5	41	1963	1
* 0308	T. Momoi	The Directivity of Tsunami due to the Undulation of the Sea Bottom (I).	5	41	1963	9
* 0309	T. Momoi	The Chilean Tsunami of May 24, 1960 at Amami-Oshima	5	41	1963	35
* 0310	T. Momoi	The Chilean Tsunami of May 24, 1960 in the Vicinity of Choshi ,Japan	5	41	1963	45
* 0311	T. Momoi	Tsunami in a T-shaped Canal	5	41	1963	357
* 0312	T. Momoi	Tsunami in a Canal of Varying Width	5	41	1963	375
* 0313	K. Kajiura	Effects of a Breakwater on the Oscillations of Bay Water	5	41	1963	403

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0314	K. Kajiura	The Leading Wave of a Tsunami (Classical Theory of the Generation and Propagation of Tsunami).	5	41	1963	535
* 0315	T. Momoi	The Effects of a Bottle-neck on Tsunami	5	41	1963	573
* 0316	T. Momoi	Tsunami in an L-shaped Canal (I)	5	41	1963	581
* 0317	T. Momoi	Diffraction of Tsunami Invading a Semi-circular Peninsula	5	41	1963	589
* 0318	T. Momoi	Tsunami in an L-shaped Bay (I)	5	41	1963	705
* 0319	T. Momoi	Tsunami in the Vicinity of a Wave Origin (I)	5	42	1964	133
* 0320	K. Kajiura	On the Bottom Friction in an Oscillatory Current	5	42	1964	147
* 0321	R. Takahasi	Coastal Effects upon Tsunamis and Storm Surges	5	42	1964	175
* 0322	T. Momoi	Tsunami in the Vicinity of a Wave Origin (II)	5	42	1964	369
* 0323	T. Momoi	Tsunami in an L-shaped Canal (II)	5	42	1964	449
* 0324	T. Momoi	Construction of Refraction Diagrams of Tsunami (I)	5	42	1964	729
* 0325	T. Momoi	Tsunami in the Vicinity of a Wave Origin (III)	5	43	1965	53
* 0326	T. Momoi	A Motion of Water Excited by an Earthquake (I).- The Case of a Rectangular Basin (One-dimensional)	5	43	1965	111
* 0327	T. Momoi	Tsunami in an L-shaped Canal (III)	5	43	1965	745
* 0328	T. Momoi	Tsunami in the Vicinity of a Wave Origin (IV)	5	43	1965	755
* 0329	T. Momoi	Tsunami in an L-shaped Canal (IV) -the Fourth Approximation	5	44	1966	121
* 0330	T. Momoi	A Further Study of Diffraction of Tsunami Invading a Semi-circular Peninsula.	5	44	1966	473
* 0331	K.Kajiura	Tsunami Source, Energy and the Directivity of Wave Radiation.	5	48	1970	835

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0332	G. Nishimura K. Kanai	The Long Wave in a Bay of Variable Section (I)	6	1	1934	182
0333	S. Homma	Theory of Tsunami Wave Dispersion.	6	27	1934	83
* 0334	T. Matuzawa	On Seismic Tidal Waves (Part I - Two Dimensional Problem in an Incompressible Water).	16	II-1	1948	18
* 0335	T. Matuzawa	On Seismic Tidal Waves. (Part 2. Numerical Evaluation of the Related Integrals).	16	II-2	1949	33
0336	A. Murota	Local Deformation along the Coast of the Tsunami Induced High Tide.	38	III	1966	218
0337	M. Nakamura H. Shiraishi Y. Sasaki	Hydraulic Characteristics of Tsunami Affecting on the Breakwater	38	V	1968	121
		A - 7 Earthquake Mechanism				
* 0338	M. Ishimoto	Sur le mecanisme de la production des ondes sismiques	5	6	1929	127
* 0339	T. Terada	On the Nature of Destructive Earthquakes	5	8	1930	61
* 0340	H. Kawasumi	Study on the Propagation of Seismic Waves. (2nd Paper) Amplitude of Seismic Waves, the Structure of the Earth's Crust and Mechanisms of their Origin.	5	11	1933	403
* 0341	H. Kawasumi	Study on the Propagation of Seismic Waves. (2nd Paper) Amplitude of Seismic Waves, the Structure of the Earth's Crust and Mechanisms of their Origin (continued)	5	12	1934	660
* 0342	W. Inouye	Notes on the Origins of Earthquakes.	5	14	1936	582
* 0343	W. Inouye	Notes on the Origins of Earthquakes. (2nd Paper)	5	15	1937	90
* 0344	W. Inouye	Notes on the Origin of Earthquakes. (3rd Paper)	5	15	1937	674
* 0345	W. Inouye	Notes on the Origin of Earthquakes. (4th Paper)	5	15	1937	686
* 0346	W. Inouye	Revisions of my "Notes on the Origins of Earthquakes"	5	15	1937	956

	No.	Author	Title	Source	No. or Vol	Date	Page
*	0347	W. Inouye	Notes on the Origin of Earthquakes. (Fifth Paper)	5	16	1938	125
*	0348	W. Inouye	Notes on the Origin of Earthquakes. (Sixth Paper)	5	16	1938	597
*	0349	K. Kanai	Examinations of the Assumption concerning Mechanism of Earthquake Origin through Seismograms.	5	30	1952	39
*	0350	K. Kasahara	Experimental Studies on the Mechanism of Generation of Elastic Waves (I).	5	30	1952	259
*	0351	K. Kasahara	Experimental Studies on the Mechanism of Generation of Elastic Waves (II).	5	31	1953	71
*	0352	T. Matuzawa	Feldtheorie der Erdbeben	5	31	1953	179
*	0353	K. Kasahara	Experimental Studies on the Mechanism of Generation of Elastic Waves (III).	5	31	1953	235
*	0354	T. Matuzawa	Feldtheorie der Erdbeben: Vergleichung vom Grossbeben vom 21. Dez., 1946 mit dem Nachbeben vom 18, April, 1948	5	31	1953	249
*	0355	K. Kasahara	Experimental Studies on the Mechanism of Generation of Elastic Waves (IV).	5	32	1954	67
*	0356	T. Matuzawa H. Hasegawa	Feltheorie der Erdbeben: Elliptisches Quellengebiet	5	32	1954	231
*	0357	T. Matuzawa	Feldtheorie der Erdbeben: Naheres über das Quellengebiet	5	32	1954	341
*	0358	K. Kasahara	Experimental Studies on the Mechanism of Generation of Elastic Waves (V).	5	33	1955	411
*	0359	D. Shimozuru	Elasticity of Rocks under the Initial Stresses, with Special Reference to the Fracture Problem.	5	33	1955	437
*	0360	K. Kasahara	Strain Energy in the Visco-elastic Crust.	5	34	1956	157
*	0361	K. Kasahara	The Nature of Seismic Origins as Inferred from Seismological and Geodetic Observations (1).	5	35	1957	473

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0362	K. Kasahara	The Nature of Seismic Origins as Inferred from Seismological and Geodetic Observations (2)	5	36	1958	21
*	0363	K. Kasahara	An Attempt to Detect Azimuth Effect on Spectral Structures of Seismic Waves (The Alaskan Earthquake of April 7, 1958).	5	38	1960	207
*	0364	K. Mogi	On the Time Distribution of Aftershocks Accompanying the Recent Major Earthquakes in and near Japan.	5	40	1962	107
*	0365	K. Mogi	Study of Elastic Shocks Caused by the Fracture of Heterogeneous Materials and its Relations to Earthquake Phenomena.	5	40	1962	125
*	0366	K. Mogi	The Fracture of a Semi-infinite Body Caused by an Inner Stress Origin and its Relation to the Earthquake Phenomena (First Paper).	5	40	1962	815
*	0367	K. Mogi	Magnitude-Frequency Relation for Elastic Shocks Accompanying Fractures of Various Materials and Some Related Problems in Earthquakes. (2nd Paper).	5	40	1962	831
*	0368	T. Maruyama	On the Force Equivalents of Dynamical Elastic Dislocations with Reference to the Earthquake Mechanism.	5	41	1963	467
*	0369	K. Mogi	The Fracture of a Semi-infinite Body Caused by an Inner Stress Origin and its Relation to the Earthquake Phenomena (Second Paper). - The Case of the Materials Having some Heterogeneous Structures.-	5	41	1963	595
*	0370	K. Mogi	Some Discussions on Aftershocks, Foreshocks and Earthquake Swarms - The Fracture of a Semi-infinite Body caused by an Inner Stress Origin and its Relation to the Earthquake Phenomena (Third Paper).	5	41	1963	615
*	0371	T. Hagiwara I. Karakawa I. Kayano K. Kaminuma	Foreshocks, Aftershocks and Earthquake Swarms Detected by the Micro-earthquake Observation.	5	41	1963	659

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0372	K. Mogi	Pressure Dependence of Rock Strength and Transition from Brittle Fracture to Ductile Flow.	5	44	1966	215
*	0373	K. Mogi	Migration of Seismic Activity.	5	46	1968	53
*	0374	K. Mogi	Development of the Aftershock Area in a Great Earthquake.	5	46	1968	175
*	0375	K. Mogi	Source Locations of Elastic Shocks in the Fracturing Process in Rocks (1).	5	46	1968	1103
*	0376	K. Mogi	Relationship between the Occurrence of Great Earthquakes and Tectonic Structures.	5	47	1969	429
*	0377	K. Mogi	Recent Horizontal Deformation of the Earth's Crust and Tectonic Activity in Japan (1).	5	48	1970	413
*	0378	K. Kaminuma Y. Goto	On the Observational Studies of Aftershocks in Japan.	5	48	1970	507
*	0379	T. Usami T. Odaka Y. Sato	Theoretical Seismograms and Earthquake Mechanism. Part I. Basic Principles. Part II. Effect of Time Function on Surface Waves.	5	48	1970	533
*	0380	K. Kasahara	The Source Region of the Matsushiro Earthquake Swarms.	5	48	1970	581
*	0381	T. Odaka T. Usami	Theoretical Seismograms and Earthquake Mechanism. Part III. Azimuthal Variation of the Initial Phase of Surface Waves.	5	48	1970	669
*	0382	S. Nagumo	Development of the Frequency Distribution of Earthquakes with Respect to the Magnitude in the Aftershocks of the 1968 Tokachi-Oki Earthquake.	5	48	1970	749
*	0383	S. Nagumo	Development of the Aftershock Area and the Block Structure of the Focal Region of the 1968 Tokachi-Oki Earthquake.	5	48	1970	759
*	0384	Y. Kishimoto	Investigation on the Origin Mechanism of Earthquakes by the Fourier Analysis of Seismic Body Waves(1)	8	13	1964	67

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0385	Y. Kishimoto	Investigation on the Origin Mechanism of Earthquakes by the Fourier-Analysis of Seismic Body Waves (1).	9	7	1963	95
	0386	M. Ishimoto	The Traditional Viewpoint for Causes of Earthquakes in Japan.	21	3	1931	39
	0387	F. Kishinouye	On the Earthquake Distribution around the time of the Izu Earthquake of 1930.	21	8	1936	585
*	0388	S. Komura	A Consideration about the Mechanism of the Occurrence of Severe Earthquakes.	21	II-9	1957	174
*	0389	T. Nagamune	Process in the Source Region for Great Earthquake (The Tokachi-Oki Earthquake, 1968 and the Etorofu-Oki Earthquake, 1963)	21	II-22	1969	104
*	0390	A. Ikami K. Iida	Time Variation of Earthquake Volume and Energy-Density with Special Reference to Tohnankai and Mikawa Earthquake.	21	II-23	1970	321
	0391	K. Kasahara	Causes and Progress of the Matsushiro Earthquake.	28	IX	1967	103
*	0392	J.P.Rothé	Earthquakes and Reservoir Loadings	37	IV	1969	A1-28
	0393	H. Takahashi S. Takahashi H. Suzuki S. Kinoshita K. Aihara T. Uchida N. Oyagi S. Ikushi K. Ohmura F. Maruyama	Study of the Matsushima Earthquake Swarms by Means of Deep Layer Boring.	38	VII	1970	31

A - 8 Earthquake Prediction

*	0394	F. Ohmori	Future Earthquake Anticipated in Tokyo	1	57	1907	1
	0395	F. Ohmori	Possibility of Earthquake Recurrence	1	57	1907	33

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0396	F. Ohmori	Temporal Distribution of Earthquakes.	1	57	1907	38
	0397	F. Ohmori	Future Earthquake Disaster in Tokyo	1	88-C	1920	24
	0398	F. Ohmori	Recurrence of Destructive Earthquakes	1	88-C	1920	27
*	0399	W. Inouye	On the Correlation between the Long Periodical Fluctuation of Barometric Gradient and the Occurrence of Earthquakes in Kanto District, Japan.	5	5	1928	43
*	0400	T. Takayama T. Suzuki	On the Relation between the Sunspot Number and the Destructive Earthquakes in Japan	5	8	1930	364
*	0401	S. Yamaguchi	Relation between Tidal Phases and the Earthquakes	5	8	1930	393
*	0402	T. Terada	Relation between Earthquake and Thunderstorms.	5	9	1931	387
*	0403	W. Inouye K. Hasegawa	On the Barometric Gradients Prior to the Earthquake in Japan.	5	10	1932	55
*	0404	T. Terada	On some Probable Influence of Earthquakes upon Fisheries	5	10	1932	393
*	0405	W. Inouye Y. Inaba	On the Barometric Gradients Prior to the Earthquakes, in Japan. (2nd Paper).	5	11	1933	704
*	0406	T. Terada	Earthquake and Fisheries. (2nd Paper).	5	11	1933	714
*	0407	S. Yamaguchi	Relation between Cyclone and Earthquake.	5	12	1934	742
*	0408	T. Matuzawa M. Hayakawa Y. Hattori T. Kaneko S. Miyamura	Erdbebenhaufigkeit in Bezug auf die Stellung der Sonne und des Mondes.	5	18	1940	265
*	0409	S. Yamaguchi	On the Changes in the Heights of Mean Sea-levels, before and after the Great Earthquakes.	5	33	1955	27
*	0410	S. Yamaguchi	On the Changes in the Heights of Mean Sea-levels, before and after the Great Earthquakes.	5	38	1960	145

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0411	S. Yamaguchi	On the Changes in the Heights of Mean Sea-levels, before and after the Great Niigata Earthquake on June 16, 1964	5	43	1965	167
*	0412	S. Yamaguchi	On the Changes in the Heights of Yearly Mean Sea-levels Preceding the Great Earthquakes.	5	46	1968	1269
*	0413	T. Rikitake	Prediction of Magnitude and Occurrence Time of Earthquakes.	5	47	1969	107
*	0414	Y. Suehiro	Some Observations on the Unusual Behaviour of Fishes Prior to an Earthquake.	6	1	1934	228
	0415	T. Nagata J. Okada	Re-Survey of Water Level near the Cape Muroto; Fluctuation of Tilt before and after Earthquake Occurrence.	7	5	1947	174
	0416	T. Hagiwara J. Yamada	Observation of Fluctuation of Ground Tilt at the Cape Muroto by Means of the Water Pipe Tilt Meter.	7	5	1947	179
	0417	T. Rikitake S. Yamada	Observation on Earth Current at Tomioka-cho, Tokushima Prefecture after the Nankai Earthquake.	7	5	1947	186
*	0418	E. Nishimura	Study on Some Phenomena Foretelling the Occurrence of Destructive Earthquakes.	8	3-6	1953	
*	0419	K. Sassa E. Nishimura	On Phenomena Forerunning Earthquakes	8	5-13	1956	
*	0420	M. Takada	On the Ground Deformation and Phenomena Forerunning Natural Disasters (Earthquakes, Rock-falling and Landslide)	8	14-3	1965	81
*	0421	M. Ohta Y. Kishimoto K. Mino N. Sumitomo J. Miyakoshi	Some Discussions on the Geomagnetic Observations Related to Earthquake Prediction	9	12-A	1969	171
*	0422	K. Sassa	Some Problems on the Forecasting of the Earthquake	10		1956	3

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0423	T. Maruyasu K. Shimada	Statistical Prediction of Possibility of Natural Disaster using Photogrammetric Technique.	11	21	1969	79
	0424	K. Musha	Data on Precursory Phenomena before the Edo Great Earthquake of the 2nd year of Ansei. (1855)	21	3	1931	89
	0425	A. Imamura	On Animal Sensitivity to Vibration	21	3	1931	309
	0426	K. Musha	On Earthquake Prediction by South American Natives.	21	7	1935	63
	0427	T. Fukutomi	Abnormal Water Level of the Rendaiji Spa, South Izu, Accompanied by the Shizuoka Earthquake on July 11, 1935.	21	7	1935	608
	0428	A. Imamura	The Ojika Earthquake and Abnormal Behaviors of Sea Water and Fish.	21	11	1939	470
	0429	A. Imamura	Present State of Study on Problems of Earthquake Prediction	24	523	1929	698
	0430	K. Sassa	Present State of the Art of Earthquake Forecast and Prediction for the Worst Disaster.	24	740	1948	5
	0431	T. Hagiwara	Measurement of Ground Motion and Crustal Deformation	28	I	1957	7
	0432	H. Kawasumi	Prediction of Earthquake and Prevention of Earthquake Disaster.	29	18-4	1970	1
	0433	T. Hagiwara	Recent Study on Prediction of Earthquake	29	19-8	1971	27
*	0434	T. Hagiwara	The Geodetic and Geophysical Measurements Needed for Predicting Earthquakes.	35	7	1971	4
*	0435	D.S.Carder	Earthquake Prediction, Past, Present and Possibilities for the Future.	37	III	1965	251
*	0436	L. Esteva	Seismicity Prediction: A Bayesian Approach	37	IV	1969	A1-172
	0437	K. Mogi	Possibility of Earthquake Prediction through the Observation on Previous Earthquakes.	38	I	1964	6

No.	Author	Title	Source	No. or Vol.	Date	Page
0438	T. Ichinohe Y. Tanaka T. Tanaka	Abnormal Crustal Deformation Accompanied by Earthquake	38	I	1964	9
0439	T. Rikitake	Progress in and Study Plan for the Prediction of Earthquake.	38	II	1965	259
0440	K. Goto Y. Sakai	The Model of Earthquakes on the Basis of Elastic Rebound Theory and Its Implications in Earthquake Prediction.	38	III	1966	202
0441	K. Yanagihara	Abnormal Behavior of Earth Current Accompanied by Earthquake.	38	IV	1967	20
0442	T. Rikitake K. Shimazaki	A Preliminary Theory of Earthquake Prediction	38	VII	1970	19
0443	Y. Shimazu K. Matsuyama	Optimum Preventive Measures for Earthquake Disaster by Means of Simulation.	38	VII	1970	41
0444	H. Takahashi N. Oyagi S. Takahashi H. Suzuki S. Kinoshita	Investigation of Abnormal Crustal Activity in Southern Boso Peninsula.	38	VIII	1971	137

A - 9 General Earthquake Topics

*	0445	The Seismological Society of Japan	Special Issue of Seismology in Japan. Part 1 History of Earthquakes and Seismology.	21	II-20	1967	1
*	0446	The Seismological Society of Japan	Special Issue of Seismology in Japan. Part 2 Theoretical and Observational Study.	21	II-20	1967	35
*	0447	The Seismological Society of Japan	Special Issue of Seismology in Japan. Part 3 Observational and Instrumental Study.	21	II-20	1967	95
*	0448	The Seismological Society of Japan	Special Issue of Seismology in Japan. Part 4 Study of Geophysical Phenomena Connected with Earthquakes.	21	II-20	1967	219

B. Ground Vibration

B - 1 Observation and Analysis of Strong Ground Motion

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0449	F. Ohmori	Research on Ground Motions	1	41	1903	9
*	0450	K. Kanai K. Hirano S. Yoshizawa T. Asada	Observation of Strong Earthquake Motions in Matsushiro Area. Part 1. (Empirical Formulae of Strong Earthquake Motions)	5	44	1966	1269
	0451	K. Kanai	On the Record of Strong-ground-motion of Niigata Earthquake.	7	8	1964	106
*	0452	H. Goto K. Toki Y. Yokoyama H. Kameda T. Akiyoshi	Analysis of Matsushiro Earthquakes Recorded by Strong Motion Accelerographs.	9	11-A	1968	275
*	0453	H. Sato K. Suzuki T. Muto	Analyses of High Frequency Characteristics of Matsushiro Earthquakes.	11	18	1966	280
*	0454	S. Omote Y. Sakai Y. Ohsaki M. Watabe H. Murata	Investigations and Analyses on Some Very Strong Motion Earthquake - Hidaka Sankei Earthquake	14	7	1970	133
*	0455	Y. Oyamada	Survey on Disaster due to the Tokachi-oki Earthquake, 1968. Chapter 3. Strong Motion Earthquake Records	15	141	1971	39
*	0456	C. Kurihara A. Sakurai	Integration of Earthquake Acceleration	19	68077	1969	
*	0456'	Y. Sato Y. Kotake E. Shima	Analysis of Strong Motion Seismograms and the Response of Structure	21	II-24	1971	248
*	0457 #	T. Hagiwara et al.	Digitalization of Accelerograms Used for Analog Computation by SERAC	23	Sup.	1965	120

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0458	# K. Nakagawa, et al.	Normalized Acceleration Spectra for Earthquakes Recorded by Strong Motion Accelerographs and their Characteristics Related with Sub-Soil Conditions	23	Sup.	1965	121
* 0459	K. Omatsuzawa	Response Analysis of Tokachi-oki Earthquake Ground Motion in Fukushima Prefecture on the Pacific	23	168	1970	1
* 0460	K. Nakagawa	Present Study of Observation on Strong Ground Motion in Japan	24	885	1960	349
* 0461	M. Watanabe	Preliminary investigations and analyses on some very strong motion earthquake - Hidakasankei Earthquake	25	230	1970	191
* 0462	N. Nasu	Vibration of the Ground Caused by Violent and Severe Earthquakes (1)	26	236	1971	123
* 0463	N. Nasu	Vibration of the Ground Caused by Violent and Severe Earthquakes (2)	26	237	1971	123
* 0464	N. Nasu	Vibration of the Ground Caused by Violent and Severe Earthquakes (3)	26	238	1971	171
* 0465	H. Goto K. Toki Y. Yokoyama H. Kameda T. Akiyoshi M. Ishida	Seismic Observations in the Regions of Matsushiro Swarm Earthquakes.	26	145	1967	1
0466	S. Nasu	Current State of Measurement and Observation of Earthquakes in Japan.	28	V	1961	47
0467	H. Tsuchida E. Kurata	Strong Ground Motion Record of Off-Tokachi Earthquake and its Aftershock in and around Ports and Harbors	28	X	1969	95
0468	T. Ohta Y. Hagiwara H. Sasao N. Adachi A. Mimura	Spectral Characteristics of Simultaneously Recorded Seismic Waves.	31	15	1966	247
0469	T. Ohta H. Takase N. Adachi	Modification of Acceleration Record Obtained by SMAC	31	17	1968	333

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0470	R. Takahashi K. Hirano	Present Status of the Strong-Motion Earthquake Observations in Japan and Some Analyses of the Observational Results.	36	I	1962	1
* 0471	Y. Matsushima	Spectral Analysis of Higashi-Matsuyama Earthquake Records.	36	III	1970	105
* 0472	S. Hayashi H. Tsuchida E. Kurata	Acceleration Response Spectra on Various Site Conditions	36	III	1970	207
* 0473	E. Shima	Seismic Surface Waves Detected by the Strong Motion Acceleration Seismograph	36	III	1970	277
* 0474	K. Irikura K. Matsuo S. Yoshikawa	Vibration Characteristics of the Ground near the Epicenter - Analysis of Strong Motion Accelerogram of Matsushiro Earthquake.	36	III	1970	285
* 0475	M. Watabe	Investigation and Analyses on Some Very Strong Motion Earthquake-Hidaka Sankei Earthquake.	36	III	1970	819
* 0476	M.P.White	The Meaning of Spectra of Earthquake Records Obtained in or near Structures.	37	II	1960	1523
* 0477	A.J.Figueroa	Some Consideration about the Effect of Mexican Earthquakes.	37	II	1960	1553
* 0478	J.L.Alford	Damage Produced by Small Ground Motions	37	II	1960	1583
* 0479	D.S.Carder W.K.Cloud	Ground Motions Generated by Underground Nuclear Explosions.	37	II	1960	1609
* 0480	V.A.Jenschke R.W.Clough J.Penzien	Characteristics of Strong Ground Motions	37	III	1965	125
* 0481	D.A.Lacer	A Simulation of Earthquake Amplification Spectra for Southern California Sites.	37	III	1965	151
* 0482	A. Ravara	Spectral Analysis of Seismic Actions	37	III	1965	195

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0483	D.E.Hudson N.C.Nigam M.D.Trifunac	Analysis of Strong-Motion Accelerograph Records	37	IV	1969	A2-1
* 0484	T. Nishiki K. Tamura M. Nonogaki	Control of Train Operation on the New Tokaido Line on the Occasion of Earthquake.	37	IV	1969	A2-81
* 0485	A. Poceski	The Intensity of Ground Motion of the Scopje 1963 Earthquake.	37	IV	1969	A2-109
* 0486	W.K.Cloud V.Perez	Strong Motion-Records and Acceleration	37	IV	1969	A2-119
* 0487	V.V.Shteinberg	Studies on the Spectra of Ground Vibrations Caused by Nearby Earthquakes.	37	IV	1969	A2-133
0488	E. Kuribayashi T.Iwasaki K. Tsuji S. Wakabayashi T. Fukuda	Survey and Analysis of Under-Ground Acceleration	38	VIII	1971	215
		B - 2 Observation and Analysis of Ordinary Ground Motion				
* 0489	K. Suehiro	A Seismic Vibration Analyser and the Records Obtained therewith.	5	1	1926	59
* 0490	K. Suehiro	On the Nature of Earthquakes Studied by Means of the Seismic Wave Analyser.	5	7	1929	467
* 0491	A. Imamura	On the Earth-vibrations Induced in some Localities at the Arrival of Seismic Waves.	5	7	1929	489
* 0492	M. Ishimoto	Etude preliminarie sur l'acceleration des Seismes	5	9	1931	159
* 0493	N. Nasu	Comparative Studies of Earthquake Motions Above-ground and in a Tunnel. (Part 1)	5	9	1931	454
* 0494	M. Ishimoto	Caracteristiques des ondes Seismiques d'apres les Enregistrements Accelerometriques.	5	9	1931	473

No.	Author	Title	Source	No. or Vol.	Date	Page
*0495	T. Saita M. Suzuki	On the Upper Surface and Underground Seismic Disturbances at the Downtown in Tokyo	5	12	1934	517
*0496	W. Inouye	Comparison of Earth Shaking on the Ground and Underground.	5	12	1934	712
*0497	T. Hagiwara	A Comparison of the Displacement, the Velocity and the Acceleration Seismograms.	5	13	1935	138
*0498	M. Ishimoto K. Iida	Observations sur les Seismes Enregistres par le Microsismographe Construit Dernierement. (1)	5	17	1939	443
*0499	T. Matuzawa K. Sato	Bestatigung der Existenz der Langperiodischen Schwingungen bei Grossen Erdbeben.	5	17	1939	624
*0500	K. Iida	Observations sur les Seismes Enregistres par le Microsismographe Construit Dernierement. (2)	5	17	1939	741
*0501	K. Iida	Sur les Caracteristiques des ondes seismiques d'apres nos Observations a l'aide des Grands Sismographes Accelerometriques d'une Tonne.	5	18	1940	532
*0502	K. Iida	Observations sur les Seismes Enregistres d'espece des Seismes d'apres les Observations a Mitaka, Tokyo. B. Comparaison entre les Seismes a Mitaka et ceux Observes a Hongo, Tokyo.	5	18	1940	575
*0503	K. Kanai T. Tanaka	Observations of the Earhtquake Motion at the Different Depths of the Earth. I.	5	29	1951	107
*0504	K. Kanai K. Osada S. Yoshizawa	Observational Study of Earthquake Motion in the Depth of the Ground. IV. (Relation between the Amplitude at Ground Surface and the Period.)	5	31	1953	227
*0505	K. Kanai M. Suzuki	Analytical Results of the Acceleration Seismograms Obtained at Tokyo and Yokohama.	5	32	1954	189
*0506	K. Kanai	A Short Note on the Relation between Amplitide and Period of Earthquake Motion	5	32	1954	211

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0507	K. Kanai K. Osada S. Yoshizawa	Observational Study of Earthquake Motion in the Depth of the Ground. V. (The Problem of the Ripple of Earthquake Motion)	5	32	1954	361
*0508	S. Omote	Aftershocks Accompanied by the Tottori Earthquake of Sept. 10, 1943. (2nd Paper)	5	33	1955	641
*0509	K. Aki	Space and Time Spectra of Stationary Stochastic Waves, with Special Reference to Microtremors.	5	35	1957	415
*0510	K. Kanai S. Yoshizawa	The Amplitude and the Period of Earthquake Motions.II	5	36	1958	275
*0511	K. Kanai T. Tanaka S. Yoshizawa	Comparative Studies of Earthquake Motions on the Ground and Underground. (Multiple Reflection Problem)	5	37	1959	53
*0512	K. Aki	Accuracy of Origin Time, Epicentre and Focal Depth of Local Earthquake Determined Routinely by the Japan Meteorological Agency.	5	43	1965	23
*0513	K. Kanai T. Tanaka S. Yoshizawa T. Morishita K. Osada T. Suzuki	Comparative Studies of Earthquake Motions on the Ground and Underground. II	5	44	1966	609
*0514	K. Yoshikawa K. Nishi	Investigation Report on Ebino-Yoshimatsu Earthquake	9	12-A	1969	47
*0515	H. Goto K. Toki H. Kameda T. Akiyoshi J. Konishi S. Yoshihara	On the Observation Results of Aftershocks of the Ebino Earthquakes and the 1968 Tokachi-Oki Earthquake.	9	12-A	1969	67
*0516	T. Akima	On Seismic Surface Waves	21	II-6	1953	35
*0517	T. Terashima	A Study of the Relation between Predominant Period and Maximum Amplitude of Earthquake-motions by Means of a Magnetic Tape Recorder.	21	II-11	1958	145

No.	Author	Title	Source	No. or Vol.	Date	Page
*0518	# T. Ohta, et al.	Comparison of Characteristics of Ground Accelerograms in a Site.	23	Sup.	1966	128
*0519	H. Kobayashi I. Funahashi T. Motohashi	The Observation of Ground Motion using Underground Seismometers at Shinjuku, Tokyo.	23	153	1968	77
*0520	K. Ishimoto	On Acceleration of Earthquake.	24	554	1932	223
*0521	M. Ishimoto	On the Earthquake Motion.	27	21	1935	757
0522	S. Okamoto	On the Underground Seismic Motions.	27	54-12	1969	5
0523	T. Fujiwara	On the Observation of Underground Acceleration near the Chikumagawa Bridge of the Shinetsu Trunk Line of Japan National Railway.	28	IX	1967	9
*0524	H. Kobayashi S. Nagahashi I. Funahashi Y. Tsushima J. Jido S. Abe K. Nakajima	Observation of Underground Seismic Motions at Shinjuku, Tokyo. Part I. Setting of Seismometers and Results of Observation.	33	3	1968	76
0525	Y. Osawa	Observation of Underground Seismic Acceleration	38	III	1966	224
		B - 3 Theory of Ground Vibration				
*0526	K. Sezawa	Possibility of the Free-oscillations of the Surface-layer Excited by the Seismic-waves.	5	8	1930	1
*0527	K. Sezawa K. Kanai	Possibility of Free Oscillations of Strata Excited by Seismic Waves. Part III.	5	10	1932	1
*0528	K. Sezawa K. Kanai	Possibility of Free Oscillation of Strata Excited by Seismic Waves. Part IV.	5	10	1932	273
*0529	K. Sezawa K. Kanai	Decay Constants of Seismic Vibration of a Surface Layer.	5	13	1935	251

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0530	K. Sezawa K. Kanai	Damping in Seismic Vibrations of a Surface Layer due to an Obliquely Incident Disturbance.	5	14	1936	354
* 0531	K. Sezawa K. Kanai	The Action of Soil Layers and of the Ocean as Dynamic Dampers to Seismic Surface Waves, and Notes on a few Previous Papers.	5	18	1940	150
* 0532	K. Sezawa K. Kanai	Dynamical Absorption of the Energy of Rayleigh-waves and Love-waves by Weak Surface Layers.	5	18	1940	345
* 0533	K. Kanai	The Effect of Solid Viscosity of Surface Layer on the Earthquake Movements.	5	28	1950	31
* 0534	T. Takahashi Y. Sato	On the Theory of Elastic Waves in Granular Substance. II.	5	28	1950	37
* 0535	K. Kanai	Relation between the Nature of Surface Layer and the Amplitudes of Earthquake Motions.	5	30	1952	31
* 0536	K. Kanai K. Osada S. Yoshizawa	The Relation between the Amplitude and the Period of Earthquake Motion.	5	31	1953	45
* 0537	K. Kanai	Relation between the Nature of Surface Layer and the Amplitude of Earthquake Motions. II.	5	31	1953	219
* 0538	K. Kanai S. Yoshizawa	Relation between the Amplitude of Earthquake Motions and the Nature of Surface Layer. III.	5	31	1953	275
* 0539	R. Takahasi	A Short Note on a Graphical Solution of the Spectral Response of the Ground.	5	33	1955	259
* 0540	K. Kanai	An Explanation for the Ground Vibration Caused by Periodically Exerted Force.	5	33	1955	283
* 0541	K. Kanai S. Yoshizawa	Relation between the Amplitude of Earthquake Motions and the Nature of Surface Layer. IV. (The Case of Finite Train)	5	34	1956	167
* 0542	K. Kanai	The Requisite Conditions for the Predominant Vibration of Ground.	5	35	1957	457

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0543	T. Kobori R. Minai	One-Dimensional Wave-Transfer Functions of the Linear Visco-Elastic Multi-Layered Half-Space.	8	18-4	1969	27
* 0544	M. Shima K. Irikura	The Characteristics of Vibrations Produced by SH Type Torque in Multi-Layered Elastic Ground.	8	19-2	1969	43
* 0545	M Shima K. Irikura	Characteristics of Vibrations Produced by SH-Type Torque in a Multi-layered Elastic Ground. (1)	9	11-A	1968	193
* 0546	M. Shima K. Irikura	Characteristics of Vibrations Produced by SH-Type Torque in a Multi-layered Elastic Ground. (2)	9	12-A	1969	181
* 0547	T. Kobori R. Minai T. Suzuki K. Kusakabe	Vibration Characteristics of Semi-Infinite Visco-Elastic Medium to Surface Excitations in a Rectangular Region.	9	12-A	1969	301
* 0548	T. Kobori R. Minai T. Suzuki	On Properties of Surface Waves in an Inhomogeneous Elastic Medium.	9	12-A	1969	317
* 0549	M. Shima	Characteristics of Vibrations Produced by Horizontal Excitaion in a Multi-Layered Elastic Ground.	9	13-A	1970	197
* 0550	T. Kobori R. Minai T. Suzuki	Wave Transfer Functions of Inhomogeneous Linear Visco-elastic Multi-Layered Media.	9	13-A	1970	213
* 0551	T. Kobori R. Minai K. Kusakabe	Vibrational Characteristics of Semi-Infinite Visco-Elastic Medium to Surface Excitations on a Rectangular Area. (Part 2)	9	13-A	1970	233
* 0552	Y. Sato	On Elastic Surface Waves.	21	II-6	1953	28
* 0553	K. Tajime	Amplitude-distribution of Love-waves in Double Layers.	21	II-11	1958	20
* 0554	H. Takeuchi N. Kobayashi	On Sezawa Waves	21	II-11	1958	87
* 0555	Y. Ohta	Amplitude Distribution of Rayleigh Type Waves in Stratified Double Layer.	21	II-16	1963	1

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0556	Y. Ohta	On the Phase Velocity and Amplitude Distribution of Rayleigh Type Waves in Stratified Double Layer (in case of $\lambda \neq \mu$)	21	II-16	1963	12
* 0557	Y. Ohta	Calculation of Surface Waves in Stratified Double Layer.	21	II-16	1963	78
* 0558	K. Akai M. Hori	A Viscoelastic Approach to the Problem of Stress Wave Propagation in Cohesive Soils.	26	185	1971	95
* 0558'	K. Akai M. Hori	Analytical Study on Stress Wave Propagation in Visco-elastic Materials Subjected to Spike Pulse.	26	195	1971	101
* 0559	T. Hatano	Factor to Determine the Strength of Seismicity	27	35-8	1950	21
* 0560	S. Okamoto M. Hakuno	On the Elastic-Plastic Vibration of the Ground.	36	I	1962	45
* 0561	S.B.Sinha	Transmission of Earthquake Waves.	36	II	1966	5
* 0562	O.A. Rascón C.A. Cornell	A Physically based Model to Simulate Strong Earthquake Records on Firm Ground.	37	IV	1969	A1-84
* 0563	M. Amin H.S. Ts'Ao A.H.-S. Ang	Significance of Nonstationarity of Earthquake Motions.	37	IV	1969	A1-97
* 0564	Y. Fukuo	Earthquake Ground Motion of Saturated Sand Layers.	38	VI	1969	53
		B - 4 Vibration Characteristics of Ground				
0565	S. Nasu	Investigation Report on Vibration Behaviour of Ground	1	100-A	1925	313
* 0566	T. Terada S. Tsuboi	Experimental Studies on Elastic Waves. (Part 1)	5	3	1927	55
* 0567	C. Tsuboi	Experimental Studies on Elastic Waves. (Part 2)	5	4	1928	9
* 0568	M. Ishimoto	Comparaison Accelerometrique des Secousses Sismiques dans deux Parties de la Ville de Tokyo.	5	10	1932	171

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0569	M. Ishimoto	Observations Accelerometriques des Secousses Sismique dans les Villes de Tokyo et Yokohama .(1)	5	12	1934	234
*0570	M. Ishimoto	Analogie des Secousses Sismiques aux Mouvements de l'eau dans un Bassin.	5	12	1934	706
*0571	M. Ishimoto	La Diffusion des Secousses Sismiques dans la Couche Superficielle du Terrain.	5	13	1935	130
*0572	M. Ishimoto	Observations Accelerometriques des Secousses Sismiques dans les Villes de Tokyo et Yokohama. (2)	5	13	1935	592
*0573	M. Ishimoto	Observation des Periodes Predominantes dans les Secousses Seismiques a Dewa-mura et a Hamamatu-tyo.	5	14	1936	240
*0574	N. Nasu T. Hagiwara	Determination of the Proper Periods of the Ground in Osaka.	5	14	1936	290
*0575	T. Hagiwara	Observation of the Predominating Periods in the Earthquake Motions at Daiho-mura and Kamiotu-mura, Ibaragi Prefecture.	5	14	1936	599
*0576	M. Ishimoto	Observations des Periodes Predominantes dans les Secousses Sismiques dont la Distance Epicentrale est Assez Grande.	5	15	1937	536
*0577	Z. Kinoshita	The Arrangement of Layers in the Earth's Crust as deduced from Seismometrical Observations at Hongo, Tokyo. (1)	5	15	1937	965
*0578	T. Hagiwara S. Omote	Comparative Observations of the Acceleration of Earthquake Motions in the Compound of the Tokyo Imperial University. (Part 1)	5	16	1938	632
*0579	T. Hagiwara S. Omote	Comparative Observations of Acceleration of Earthquake Motions in the Compound of the Tokyo Imperial University (Part II)	5	17	1939	139
*0580	R. Takahasi K. Hirano	Seismic Vibrations of Soft Ground.	5	19	1941	534
*0581	T. Minakami	Microseismic Observation of Tottori After-shock.	5	22	1944	42

No.	Author	Title	Source	No. or Vol.	Date	Page
*0582	T. Minakami S. Sakuma	The Earthquake-Motions on Various Formations of the Earth's Surface. (I) Observation at Koti City.	5	26	1948	61
*0583	S. Sakuma	The Earthquake-Motions on Various Formations of the Earth's Surface. (II) Observations at Gobo and Kirime.	5	26	1948	67
*0584	S. Miyamura	Tertrema Movado kaj Kvalito de Grundo Cirkau la Urbeto de Gobo, Wakayama Prefekto. (En Esperanto)	5	26	1948	101
*0585	F. Kishinouye	Periods of Earth Vibration of Koto-ku, Tokyo.	5	29	1951	403
*0586	F. Kishinouye	Earth-vibrations on Soft Ground Caused by Fallen Body.	5	30	1952	59
*0587	Subsoil Research Team, The Earthquake Research Institute	Investigation into Seismic Characteristics of Subsoils in Tokyo.	5	33	1955	471
*0588	S. Omote S. Komaki N. Kobayashi	Earthquake Observations in Kawasaki and Tsurumi Areas and the Seismic Qualities of the Ground. (Part 1).	5	34	1956	335
*0589	K. Kanai	Semi-empirical Formula for Vibrational Characteristics of the Ground.	5	35	1957	309
*0590	S. Omote S. Komaki N. Kobayashi	Earthquake Observations in Kawasaki and Turumi Areas and the Seismic Qualities of the Ground. (Part II)	5	35	1957	613
*0591	E. Shima	Modifications of Seismic Waves in Superficial Soil Layers as Verified by Comparative Observations on and beneath the Surface.	5	40	1962	187
*0592	K. Kanai	On the Predominant Periods of Seismic Vibrations.	5	40	1962	885
*0593	E. Shima	Vibration Characteristics of Subsoil in Downtown of Tokyo during the Earthquakes.	5	47	1969	145

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0594	T. Minakami S. Miyamura S. Sakuma	Observation on Aftershock at Gobocho, Wakayama Prefecture (Especially on Relationship between Ground Acceleration and Ground)	7	5	1947	152
* 0595	S. Yoshikawa M. Shima K. Irikura	Vibrational Characteristics of the Ground Investigated by Several Methods.	8	16-2	1967	1
* 0596	S. Yoshikawa M. Shima N. Goto	Some Problems on the Ground Exploration.	9	9	1965	99
* 0597	S. Yoshikawa M. Shima K. Irikura	Vibrational Characteristics of the Ground by the Observations of Natural Earthquake and Artifical Earthquake.	9	9	1965	119
* 0598	S. Yoshikawa M. Shima N. Goto K. Irikura	Some Problems on the Ground Exploration (Continued)	9	10-A	1967	165
* 0599	S. Yoshikawa M. Shima N. Goto K. Irikura	Vibrational Characteristics of the Ground in the Region of Matsushiro. I.	9	10-A	1967	189
* 0600	S. Yoshioka M. Shima N. Goto K. Irikura J. Akamatsu	On Vibrational Characteristics of the Ground by the Use of Vibrating Machine.	9	11-A	1968	165
* 0601	S. Yoshikawa M. Shima K. Irikura	Vibrational Characteristics of the Ground in the Region of Matsushiro.II.	9	11-A	1968	179
* 0602	S. Okamoto M. Kato	Observation of Vibration of Ground Surface Layer.	11	13	1961	123
* 0603	S. Hata	The Relationship between the Maximum Amplitude of Seismic Movements and the Ground Structure.	12	16-1	1952	88

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0604	D.M.O. Sapporo	Vibration of Ground Caused by a Dynamo.	12	25-1	1960	21
* 0605	M. Katsumata	Ground Coefficient for Amplitude of Earthquake (II) Note on the Maximum Amplitude.	12	30-4	1967	1
0606	H. Matsuo	Investigation of Acceleration and Period of Seismic Wave at the Reclaimed Ground in Port and Harbor.	16	53	1940	1
0607	H. Matsuo	Investigation of Acceleration and Period of Seismic Wave at the Reclaimed Ground in Port and Harbor.(2nd Report)	16	64	1942	41
* 0608	K. Ikeda	Vibration of Ground Excitéd by Trains and Other Dynamic Loads.	18	466	1965	
* 0609	A. Sakurai T. Takahashi H. Tsutsumi T. Sato	Amplification of Earthquake Ground Motion in Surface Ground Layers.	19	69026	1969	
0610	M. Ishimoto	Examination of Predominant Period of Ground Motion in Dewa-mura and Hamamatsu, Japan.	20	1	1937	1
0611	M. Ishimoto	Predominant Period of Acceleration Observed near Tokyo, Caused by the Earthquake with Relatively Large Epicentral Distance.	20	1	1937	6
0612	W. Inouye	Comparison of Surface Ground Motion with Underground Motion.	21	6	1934	405
0613	K. Iida	Earthquake Intensity and Predominant Period of Acceleration.	21	13	1941	67
0614	T. Minakami S. Uchibori	Observation of Aftershocks of the Tottori Earthquake, Particularly the Natural Vibration of the Ground, by Means of Microseismograph.	21	15	1943	267
0615	T. Suzuki	Wave Forms of Ground Vibration by Blasting.	21	16	1944	163
* 0616	T. Asada	On the Relation between the Predominant Period and the Maximum Amplitude of Earthquake-Motions.	21	II-6	1953	69
0617	R. Tanahashi H. Ishizaki	A Method of Numerically Expressing the Strength of the Ground Against Earthquakes.	22	1	1949	81

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0618	G. Kitazawa	On the Ground of Tokyo	23	40	1950	1
* 0619	K. Kanai	Semi-empirical Formula for the Seismic Characteristics of Ground.	23	57-1	1957	281
* 0620	K. Omata	A Study on Dynamic Behavior of Soil.	23	Sup.	1965	344
* 0621	K. Kobayashi, et al.	Statistical Study for Dynamic Coefficient of Soil Reaction.	23		1966	131
* 0622	H. Yamahara	The Dynamic Properties of Soil Investigated from the Natural Period of Identical Type House of the Japan Housing Corporation.	23		1966	132
* 0623	# M. Itoh, et al.	An Experimental Study on the Dynamical Behavior of Soil-Foundation Systems - No. 1.	23		1967	225
0624	K. Kanai	A Sequence of Studies on Vibration Characteristics of Ground and Earthquake Resistance of Buildings.	24	835	1956	7
0625	The Investigation Group on the Ground of Tokyo.	Geological Map of the Ground of Tokyo.	24	887	1960	393
* 0626	K. Takeyama H. Toyama	Importance of Subsoil Exploration in the City Area.	24	919	1962	663
* 0627	K. Kanai Y. Ohsaki M. Shiki	Method for Drawing Subsoil Map in the City Area.	24	919	1962	675
* 0628	# K. Takeyama K. Suzuki K. Suyama, et al.	Some Results of Subsoil Exploration in the City Area.	24	919	1962	695
0629	K. Nakagawa	Measurement of the Ground Structure by Means of Pll Elastic Wave Testing Machine.	25	19	1952	25
* 0630	K. Kanai	The "Face" of Earthquake.	25	47	1955	26
* 0631	T. Hatano H. Watanabe	Measurement of the Dynamic Modulus of Foundation - One Application to a Clay Foundation.	26	145	1967	47

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0632	A. Sakurai T. Takahashi	Modification of Earthquake Ground Motion in Surface Ground Layers Observed During the Matsushiro Earthquakes.	26	186	1971	25
0633	T. Ishihara M. Hatanaka	Earthquake Resistance of the Ground in Osaka City.	27	34-6,7	1949	25
* 0634	S. Murayama S. Mogami	On the Vibration Characteristics of Gravel Layers.	27	38-6	1953	27
* 0635	Kansai Branch, JSCE	Public Hazard, Part 1, Noise and Vibration	27	51-4	1966	26
* 0636	I. Toriumi	Noise and Vibration	27	54-6	1969	31
0637	T. Fujiwara	Observation of Earthquake in and near Bisan Seto (1); Vibration Characteristics of the Rock Surface Layer.	28	VIII	1965	1
* 0638	H. Goto K. Toki T. Akiyoshi	On Nonlinear Shearing Vibration of the Ground	28	VIII	1965	5
0639	T. Takahashi	Results of Observation of Seismic Ground Motion During the Matsushiro Earthquake.	28	IX	1967	1
0640	H. Tsutsumi T. Sato A. Sakurai	Analysis of Ground Characteristics on the Basis of Wave Motion Records.	28	IX	1967	79
0641	F. Kawakami A. Asada	Vibration Behavior of Soft Ground (3rd Report).	28	IX	1967	91
0642	A. Asada	Seismic Response of Soft Ground	28	X	1969	1
* 0643	R. Takahashi	Soft Ground and the S Wave Velocity	35	4	1966	127
* 0644	T. Suzuki	Foundation Research of Soft Ground	35	4	1966	128
* 0645	T. Hirono S. Hisamoto	Ground Character Deduced from Earthquake Intensities.	36	I	1962	21
* 0646	K. Kanai	On the Predominant Period of Earthquake Motions.	36	I	1962	27

No.	Author	Title	Source	No. or Vol.	Date	Page
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* 0648	H. Kobayashi H. Kagami	A Numerical Analysis of the Propagation of Shear Waves in Multi-layered Ground.	36	II	1966	15
* 0649	N. Hatakeyama M. Seriu	The Effect of the Shape of a Lower Layer on the Vibration of Upper Layers.	36	II	1966	37
* 0650	Y. Sugimura	Dynamic Behavior of Soft Ground During an Earthquake.	36	III	1970	223
* 0651	M. Shima	The Characteristics of Vibrations Produced by a Horizontal Point Force in a Multilayered Viscoelastic Ground	36	III	1970	247
* 0652	T. Sato Y. Sawada	Experimental Investigations on Propagation of Seismic Surface Wave.	36	III	1970	263
* 0653	S. Komaki T. Maikuma I. Onda	Experimental Study of Characteristic Vibration Near Cliff due to SH Wave.	36	III	1970	301
* 0654	K. Kanai R. Takahasi H. Kawasumi	Seismic Characteristics of Ground.	37	I	1956	31-1
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* 0657	I. Muramatsu T. Yabashi	The Seismic Intensity at a Certain Dam Site.	37	II	1960	1593
* 0658	I. Herrera E. Rosenblueth	Response Spectra on Stratified Soil.	37	III	1965	I-44
* 0659	I. Herrera E. Rosenblueth O.A. Rascón	Earthquake Spectrum Prediction for the Valley of Mexico.	37	III	1965	I-61

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0660	N. Nasu	Ground Investigations in City Areas in Japan	37	III	1965	I-143
* 0661	I.A.Yershov G.A.Lyamzina V.V.Shteinberg	Methods of Estimating the Effect of Superficial Deposits on the Intensity of Seismic Oscillations.	37	III	1965	217
* 0662	C. Tamura T. Mizukoshi T. Ono	Characteristics of Earthquake Motion at the Rocky Ground.	37	IV	1969	A2-26
* 0663	I.M.Idriss H.B.Seed H. Dezfulian	Influence of Geometry and Material Properties on the Seismic Response of Soil Deposits.	37	IV	1969	A2-53
* 0664	S. Yoshikawa M. Shima R. Irikura	Experimental Study on the Vibrational Characteristics of Ground.	37	IV	1969	A2-68
* 0665	S. Cherry	A Field Investigation of the Influence of Site Conditions on Ground and Structural Response.	37	IV	1969	A2-95
0666	Y. Sakai	Soil and Ground Conditions in the Kushiro Area Affected by Off-Hiroo Earthquake.	38	II	1965	149
0667	F. Kawakami A. Asada E. Yanagisawa	Vibration Behavior of Soft Ground During Earthquake.	38	III	1966	154
0668	K. Toki Y. Yokoyama T. Akiyoshi	Result of Observation of Ground Motion in Matsushiro Earthquake Swarm Area.	38	III	1966	172
0669	H. Goto K. Toki Y. Yokoyama H. Kameda T. Akiyoshi	Result of Observation of Ground Motion due to Matsushiro Swarm Earthquake.	38	IV	1967	146
0670	M. Yoshikawa M. Shima K. Irikura	Vibration Behavior of Ground in and near Matsushiro	38	IV	1967	150

No.	Author	Title	Source	No. or Vol.	Date	Page
0671	S. Komaki T. Maiguma K. Fujita	Vibration Characteristics of Ground before and after Pile-Driving.	38	VI	1969	63
0672	E. Shima K. Kudo	Behavior of Ground during Earthquake.	38	VI	1969	67
0673	S. Komaki T. Maiguma I. Otoda	Vibration Characteristics Observed through SH Wave Test near a Cliff.	38	VII	1970	45
0674	K. Tajime	Investigation of Ground in Hakodate City by Elastic Wave Test.	38	VII	1970	49
0675	Y. Sakai T. Aoki M. Naganori	Investigation of Vibration Behavior of Ground at Hakodate University.	38	VII	1970	51
0676	M. Nogoshi	Seismic Intensitv Distribution of Earthquake Which Occurred on October 16th, 1970 in the Southeastern Reagion of Akita Prefecture.	38	VIII	1971	199
0677	K. Tajime	Investigation of Ground Characteristics at Uraga-cho by Elastic Wave Test.	38	VIII	1971	213

B - 5 Microtremors and Microseisms

* 0678	F. Ohmori	On Micro-tremors	3	2	1908	1
* 0679	K. Wadachi	On the Pulsatory Oscillations in Tokyo	5	1	1926	55
* 0680	W. Inouye	Earthquake and Pulsation (Preliminary Report)	5	10	1932	83
* 0681	F. Kishinouye	Microseisms of Four Seconds Period Observed with Horizontal Seismographs.	5	13	1935	146
* 0682	F. Kishinouye	On Microseisms of Four Seconds Period (2nd Paper).	5	13	1935	608
* 0683	M. Ishimoto	Observations sur des Secousses d'une Petite Amplitude.	5	15	1937	697
* 0684	R. Ikegami F. Kishinouye	A Study on the Propagation of Microseismic Waves.	5	27	1949	75

No.	Author	Title	Source	No. or Vol.	Date	Page
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* 0686	R. Ikegami F. Kishinouye	A Study on the Propagation of Microseismic Waves. Part III.	5	29	1951	305
* 0687	R. Ikegami	A Study on the Propagation of Microseismic Waves. Part IV.	5	29	1951	313
* 0688	F. Kishinouye	On the Period and the Amplitude of Microseismic Movement of the Ground.	5	29	1951	483
* 0689	R. Ikegami F. Kishinouye	A Study on the Propagation of Microseismic Waves. Part V.	5	29	1951	571
* 0690	F. Kishinouye	Microseisms and Related Sea Waves.	5	29	1951	577
* 0691	K. Kanai T. Tanaka K. Osada	Measurement of the Microtremor. I.	5	32	1954	199
* 0692	R. Ikegami	Relation between the Periods of Microseisms and the Location of Typhoon.	5	33	1955	681
* 0693	F. Kishinouye I. Shida	Tripartite Observation of Microseisms at Sakata.	5	34	1956	301
* 0694	K. Kanai T. Tanaka K. Osada	Measurement of the Micro-tremor. II. (Tokyo Metropolis)	5	35	1957	109
* 0695	K. Kanai T. Tanaka K. Osada	Measurement of the Micro-tremor. III. (Yokohama City)	5	35	1957	135
* 0696	K. Kanai N. Nasu T. Tanaka K. Osada	Measurement of the Micro-tremor. IV. (Shonai District)	5	35	1957	149
* 0697	K. Kanai H. Kawasumi T. Tanaka K. Osada	Measurement of the Micro-tremor. V. (Osaka City)	5	35	1957	163

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0698	K. Kanai T. Tanaka T. Morishita K. Nakagawa	Measurement of the Micro-tremor. VI. (Ichinomiya City, Aichi Prefecture)	5	35	1957	181
* 0699	K. Kanai T. Tanaka K. Osada	Measurement of the Micro-tremor. VII. (Kawasaki City)	5	35	1957	191
* 0700	F. Kishinouye	Studies of Microseisms by Observations.	5	35	1957	533
* 0701	F. Kishinouye M. Kotaka	Microseisms and Typhoons.	5	37	1959	171
* 0702	F. Kishinouye I. Shida	Tripartite Observations of Microseisms in Yamagata City.	5	37	1959	177
* 0703	F. Kishinouye I. Shida	Tripartite Observations of Microseisms at Sakata (2nd Paper)	5	37	1959	183
* 0704	F. Kishinouye I. Shida	Tripartite Observations of Microseisms in Shonai Plain, Yamagata Prefecture.	5	37	1959	189
* 0705	T.A.Santo	Investigations into Microseisms Using the Observational Data of Many Stations in Japan. (Part 1) - On the Origin of Microseisms.	5	37	1959	307
* 0706	T.A.Santo	Investigations into Microseisms by the Observational Data of Many Stations.(Part II) - Further Considerations on the Origin of Microseisms.	5	37	1959	483
* 0707	T.A.Santo	The Observation of Microseisms at a Wave Gauge Station. - On the Origin of Microseisms. (Part III)	5	38	1960	241
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* 0709	F. Kishinouye	Further Studies of Microseisms by Observation.	5	39	1961	77
* 0710	K. Kanai T. Tanaka	On Microtremors. VIII.	5	39	1961	97

No.	Author	Title	Source	No. or Vol.	Date	Page
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* 0712	T. Tanaka	Period Distribution Analyser for Irregular Motions.	5	40	1962	861
* 0713	T. Tanaka T. Morishita	Microtremor Measurement in the Disaster Area of the Nagaoka Earthquake of February 2, 1961.	5	41	1963	315
* 0714	T. Tanaka T. Morishita	Microtremor Measurement in the Disaster Area of the Northern Miyagi Earthquake of April 30, 1962.	5	42	1964	397
* 0715	K. Kanai T. Tanaka S. Yoshizawa	On Microtremors. IX. (Multiple Reflection Problem)	5	43	1965	577
* 0716	K. Kanai T. Tanaka K. Osada T. Suzuki T. Morishita S. Yoshizawa	On Microtremors. X. (Earthquake Damage to Wooden Houses)	5	44	1966	645
* 0717	K. Kanai T. Tanaka T. Morishita K. Osada	Observation of Microtremors. XI. (Matsushiro Earthquake Swarm Area)	5	44	1966	1297
* 0718	A. Allam E. Shima	An Investigation into the Nature of Microtremors.	5	45	1967	43
* 0719	K. Kanai T. Tanaka T. Suzuki K. Osada S. Yoshizawa T. Morishita	Observational Study of Ground Vibrations Caused by Compressors.	5	46	1968	773
* 0720	K. Kanai T. Tanaka T. Suzuki	A Short Note on Abnormal Earthquake Damage and Microtremors at Oyashiro-cho, Shimane Prefecture, Japan.	5	46	1968	783

No.	Author	Title	Source	No. or Vol.	Date	Page
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*0723	K. Kanai T. Tanaka T. Morishita K. Osada S. Yoshizawa	Result of Measurement of Aftershock and Micro-tremors in Niigata City.	7	8	1964	109
*0724	S. Okamoto I. Yokoi	Frequency Analyser for Microtremor Records.	11	15	1963	165
*0725	Seismological Section, J.M.A.	On the Ground Conditions of Seismolograph Room of Weather Stations attached to J.M.A. (Continued)	12	23	1958	47
*0726	Seismological Section, J.M.A.	On the Ground Conditions of Seismograph Room of Weather Stations attached to J.M.A.(3rd Report)	12	23	1958	171
*0727	T. Tanaka T.K. Dutta K. Kanai	Study of Microtremor Amplitude Spectrum in Relation to Ground Amplification Character for Sites in Southern California.	14	3	1966	21
*0728	A.M. Allam	An Investigation into the Nature of Microtremors through Experimental Studies of Seismic Waves.	14	7	1970	1
*0729	A. Zatopek	Generalized Amplitudes of IGY Microseisms in Europe and in Japan.	14	7	1970	79
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*0731	S. Miyamura H. Matsumoto	An Example of Microtremor	21	II-5	1952	171
*0732	M. Nogoshi T. Igarashi	On the Propagation Characteristics of Microtremor.	21	II-23	1970	264

No.	Author	Title	Source	No. or Vol.	Date	Page
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* 0734	M. Nogoshi T. Igarashi	On the Amplitude Characteristic of Microtremor. (Part 2)	21	II-24	1971	26
0735	I. Toriumi	On Microseisms of A Certain Plant.	22	4	1949	137
* 0736	K. Kanai T. Tanaka K. Osada	A Method of Determinating the Vibration Characteristics of Ground by Means of Micro-tremor.	23	54	1956	373
* 0737	K. Kanai J. Iwazu K. Nakagawa	Investigation of Ground Characteristics and the Seismic Grading Map of Ichinomiya City.	23	54	1956	377
* 0738	E. Kimura I. Toriumi	Measurement of Natural Ground Vibration and its Spectrum Analysis.	23	Sup.	1965	142
* 0739	T. Tsunoda S. Watanabe	Correlation of Natural Ground Vibration and Earthquake at Matsushiro.	23	Sup.	1966	168
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0741	S. Okamoto K. Kubo M. Hakuno	Microtremors along the location of the Meishin Express-way and Proposed Design Earthquake Intensity.	28	III	1959	41
0742	F. Kawakami A. Asada E. Yanagisawa	Measurement of Microtremors in Soil Construction.	28	VII	1964	11
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* 0744	T. Watanabe	A Study on the Propagation of Elastic Waves Generated by an Oscillator.	35	2	1962	69
* 0745	R. Takahasi	Spectra of Micro-tremors and of Earthquakes of Soft Stratified Surface Layers of the Ground.	35	5	1968	5
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No.	Author	Title	Source	No. or Vol.	Date	Page
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0751	M. Nogoshi K. Noritomi T. Saijo	Fundamental Study on Ground Motion in the Hachirogata Lagoon.	38	III	1966	156
0752	S. Yamashita K. Noritomi M. Nogoshi	Characteristics of Microtremors in Akita District.	38	IV	1967	123
0753	F. Kawakami A. Asada	Determination of Vibration Characteristics of Earth Dam on the Basis of Microtremor Measurement.	38	IV	1967	126
0754	F. Kawakami A. Asada Y. Mori M. Kamiyama	Characteristics of Microtremors of the Tsugaru Alluvium Plain.	38	VII	1970	55
0755	K. Yamabe M. Kawamura K. Kanai	A Note on the Analysis of Micro-tremors.	38	VII	1970	63
0756	T. Wada K. Kamo T. Furuzawa K. Onoe	Influence of a Group of Cracks in Landslide Zones on Microtremors.	38	VIII	1971	195
0757	A. Shima F. Nomura	Microtremors in the Landslide Zone in Niigata Prefecture Where the Koyosan Tunnel Collapsed.	38	VIII	1971	197

	No.	Author	Title	Source	or Vol.	Date	Page
	0758	A. Kubodera M. Ohtuka	Study on Microtremors with Relatively Long Period	38	VIII	1971	203

B - 6 Seismometer

B - 6 - 1 Strong-motion Accelerograph

*	0759	N. Nasu	Strong-motion Vibrograph	5	25	1947	57
*	0760	R. Takahasi T. Hatori	The ERI-II Type Seismoscope	5	41	1963	293
*	0761	T. Terashima	The Characteristic Inspection of Strong-motion Seismographs.	13	52	1968	33
*	0762	R. Takahashi	"SMAC" Strong-motion Accelerometer	21	II-6	1953	117
*	0763	R. Takahashi	Design and Trial Construction of Strong-motion Accelerograph.	24	860	1958	23
*	0764	K. Kanai	Seismological Observation in U.S.A.	24	1041	1971	729
*	0765	H. Umemura	System and Organization for Seismological Observation.	24	1041	1971	753
	0766	K. Nakagawa	A Trial Model of Strong-motion Accelerograph.	25	7	1951	12
	0767	T. Ohkubo K. Goto	A Trial Model of High Frequency Strong-motion Accelerograph.	28	IX	1967	99
*	0768	W.K. Cloud D.S. Carder	U.S.C. and G.S. Instruments.	37	I	1956	2-1
*	0769	R. Takahasi	The SMAC Strong-motion Seismometer.	37	I	1956	3-1
*	0770	P.C.J.Duflou R.I.Skinner	New Strong-motion Accelerograph	37	III	1965	54
*	0771	H.T.Halverson	The Strong-motion Accelerograph	37	III	1965	75

B - 6 - 2 Conventional Seismometer

No.	Author	Title	Source	No. or Vol.	Date	Page
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* 0773	M. Ishimoto	Un Sismographe Accelerometrique et ses Enregistrements.	5	9	1931	316
* 0774	T. Tamaru	The Construction and Study of an Acceleration Seismograph	5	11	1933	362
* 0775	T. Hagiwara	A Velocity Seismograph	5	12	1934	776
* 0776	S. Omote S. Miyamura Y. Yamazaki	Triggered Magnetic Tape Recorder for Routine Seismic Observations.	5	33	1955	397
* 0777	S. Miyamura H. Matsumoto	Line Carrier Telerecording Seismograph (abbr. LTS)	5	33	1955	715
* 0778	S. Miyamura M. Tsujiura	A VHF Radio Telerecording Seismograph (abbr. RTS)	5	33	1955	725
* 0779	S. Miyamura M. Hori	Quelques Essais au Laboratoire pour Utilisation Pratique du Sismographe Accelerometrique du Type d'Ishimoto.	5	33	1955	733
* 0780	S. Omote Y. Yamazaki	Seven-Channel Triggered Magnetic Tape Recorder for Routine Seismic Observations.	5	35	1957	595
* 0781	K. Kanai T. Tanaka	Self-levelling Vibrograph.	5	36	1958	359
* 0782	F. Kishinouye Y. Watanabe	An Electromagnetic Horizontal Seismograph for Recording Microseisms.	5	37	1959	327
* 0783	H. Matsumoto	Simple Electronic Seismographs supplied only with Commercial A.C. Source.	5	37	1959	375
* 0784	H. Matsumoto	Logarithmic Wide Amplitude Range Electronic Seismograph.	5	37	1959	381
* 0785	M. Tsujiura	A Pen-Writing Long-Period Seismograph. (Part 1 and Part 2)	5	40	1962	899
* 0786	K. Aki H. Matsumoto M. Tsujiura T. Maruyama	A Digital, Tele-recorded, Long-Period Seismograph System.	5	43	1965	381

No.	Author	Title	Source	NO. or Vol.	Date	Page
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* 0788	H. Watanabe	A Rotational Strain Seismometer	5	12-58	1962	
* 0789	T. Wada K. Kamo	An Equipment for Automatical Seismic Recording.	9	13-A	1970	35
* 0790	T. Fujiwara	On Seismometer Setting in Bore-holes of Inland Sea of Japan, SETO	13	572	1967	
* 0791	C. Katsuta N. Mashizu T. Kono	Seismograph of Long Natural Period by a High Speed Electrohydraulic Servomechanism.	23	103	1964	120
* 0792	# N. Mashizu,et al	Experimental Study on Servo-Seismograph.	23	Sup.	1966	127
* 0793	S. Niwa	On a set of Instruments for Observing Stationary Seismic Motions - Displacement, Velocity and Acceleration.	27	45-6	1960	29
* 0794	C. Katsuta N. Mashizu	Theoretical and Experimental Research on Servo-seismograph. (I)	36	II	1966	127
* 0795	T. Fujiwara T. Oda	On Seismometers Setting in Bore-hole of Seto Inland Sea of Japan.	35	II	1966	133
0796	Y. Ohta T. Asada	Construction of An Instrument for Observation of Moderate Earthquakes. (Part 1).	38	6	1969	49

B - 6 - 3 Vibration Analysis Apparatus and Miscellaneous Instrumentation

* 0797	M. Ishimoto K. Kimura	Construction d'un Appareil Analyseur en Frequence et Son Application aux Inscriptions Sismographiques. (en Francais)	5	12	1934	19
* 0798	Y. Sato T. Matumoto	By the Relay Method, The Construction of Correlogram Analysis Computer, by the Relay Method	5	34	1956	279
* 0799	H. Kawasumi E. Shima M. Sibano M. Yanagisawa	A Seismographic Starter Using a Phototransistor.	5	36	1958	447

	No.	Author	Title	Source	No. or Vol.	Date	Page
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	0801	S. Okamoto K. Kiyomiya	A Trial Model of a Seismograph that Automatically Triggers the Recording Operation under Incident Earthquake Waves.	11	7	1955	116
*	0802	S. Okamoto I. Yokoi	Automatic Sensitivity Changer of the Seismometer.	11	15	1963	424
*	0803	Y. Tomoda	A Simple Starter for Recording Earthquake Motion.	21	II-5	1952	28
*	0804	T. Asada N. Den	On a Trigger for High Sensitive Seismometer.	21	II-5	1952	29
*	0805	T. Tanaka K. Kanai	A Smoked-paper Recorder for High Sensitive Seismometer.	21	II-5	1952	111
	0806	K. Kanai T. Tanaka	A Trial Model of Simplified Instrument for Measuring Natural Period of Building.	25	34	1954	39
	0807	S. Niwa	Observation of Ground Motion (Displacement, Velocity and Acceleration) by Cathode-Ray Oscilloscope.	28	III	1959	1
	0808	S. Hayashi N. Miyajima T. Yamada	Instrumentation for Vibration Record Processing.	28	VII	1964	1
*	0809	E. Shima T. Tanaka N. Den	Some New Instruments Used in Earthquake Engineering in Japan.	37	II	1960	761

B - 6 - 4 Theory of Seismograph and Miscellaneous

*	0810	G. Nishimura M. Suzuki E. Furukawa	Theory of Eden's Twin Strips and Its Application to Magnifying Mechanism of Seismometer.	5	32	1954	87
*	0811	H. Kawasumi	Notes on the Theory of Vibration Analyser.	5	34	1956	1
*	0812	T. Hagiwara	A Note on the Theory of the Electromagnetic Seismograph.	5	36	1958	139
*	0813	E. Shima	Theoretical and Experimental Approach to the Designs and Calibrations of Electro-magnetic Seismograph: I. Voltage Sensitivity of the Moving-coil Type Seismometer.	5	38	1960	29

No.	Author	Title	Source	No. or Vol.	Date	Page
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* 0815	G. Nishimura T. Kotaki	Behavior of Solid Friction in a Seismic System with One Degree of Freedom under Harmonic External Force.	5	43	1965	685
* 0816	G. Nishimura M. Takano	Behavior of a Seismic System under Vibrating Solid Friction of High Frequency (Report No. 1)	5	43	1965	719
* 0817	K. Kudo E. Shima Y. Sato	A Note on the Calibration of a Seismometer in the case of $h \approx 1$.	5	46	1968	1313
* 0818	M. Hatanaka	On the Vibration Characteristics of Moving Coil Type Vibrograph.	10		1956	143
* 0819	M. Ishimoto	Sensitivity and Magnification Factor of Seismograph.	21	4	1932	119
* 0820	K. Wadachi	Sensitivity and Magnification Factor of Seismograph.	21	4	1932	265
* 0821	Z. Suzuki H. Ishida	A Simple Method to Determine the Damping Constant of a Seismograph from the Record of its Free Oscillation When the Damping Is Nearly Critical.	21	II-10	1957	164
* 0822	I. Muramatsu	Spectrum of Earthquake Motion and Theory of Resonance Type Analyser.	21	II-15	1962	95
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No.	Author	Title	Source	No. or Vol.	Date	Page
		C. Ground				
		C - 1 Ground in General				
*0824	S. Murayama T. Shibata	On the Creep Characters of Clay	10		1956	42
0825	G. Miki	Investigation of Ground Characteristics in the Kei-Yo (Tokyo-Chiba) Industrial Area.	11	12	1960	331
*0826	G. Miki Y. Naruse S. Kaizuka	Geological and Engineering Property of Subsoils in the Keiyo Industrial Area.	11	14	1962	172
*0827	G. Miki Y. Naruse	Geological and Engineering Properties of Subsoils in the Negishi Bay, South of Yokohama.	11	18	1966	195
*0828	H. Arai Y. Umehara	Vibration of dry sand layers.	17	6-5	1967	1
*0829	M. Yasuda T. Kuriki Y. Esashi I. Matsui T. Kataoka H. Tsutsumi	Investigation on the Change of Characteristics of Sandy Ground by Niigata Earthquake.	19	68002	1968	
*0830	Y. Ohsaki Y. Koizumi H. Kishida	On Dynamic Characteristics of Soils - Preliminary Experiments with Dynamic Unconfined Compression Apparatus.	23	57-1	1957	269
*0831	Y. Sakai T. Shimomura	Research of Simple Dynamic Penetrometer.	23	57-1	1957	277
*0832	Y. Ohsaki H. Kishida S. Nakajima	On Dynamic Characteristics of Soils.	23	60-1	1958	653
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No.	Author	Title	Source	No. or Vol.	Date	Page
* 0834	# T. Tachikawa, et al.	Elastic Waves in a Water-Saturated Porous Soil Ground	23	Sup.	1967	226
* 0835	K. Takeyama	A New Ground Map of Tokyo - Completed.	25	96	1959	28
* 0836	M. Kurata	On Stability Numbers at Earthquake Time.	27	38-11	1953	11
* 0837	S. Ichihara	Dynamic Properties of Soil.	27	53-12	1968	42
* 0838	S. Prakash J.N. Mathur	A Pore Pressure Pick-up for Dynamic Studies of Soils.	37	III	1965	I-231
0839	Y. Hattori	A Role of Seismic Exploration in Geological Investigations Performed for Disaster Prevention.	38	II	1965	165
0840	Y. Wakazono M. Kitao	A Study of Soil Characteristics by Seismic Exploration.	38	II	1965	169
		C - 2 Soil				
* 0841	T. Terada N. Miyabe	Experimental Investigations on the Mechanism of Formation of Step-Faults in a Pile of Sand (Part I).	5	4	1928	33
* 0842	T. Terada N. Miyabe	Experimental Investigations of the Deformation of Sand Mass by Lateral Pressure (Part II).	5	6	1929	109
* 0843	T. Terada N. Miyabe	Experimental Investigations of the Deformation of Sand Mass. Part III.	5	7	1929	65
* 0844	K. Iida	Experiments on the Visco-elastic Properties of Pitch-like Materials. (1)	5	13	1935	198
* 0845	K. Iida	Experiments on the Visco-elastic Properties of Pitch-like Materials. (II)	5	13	1935	433
* 0846	M. Ishimoto K. Iida	Experiences sur le Sol.	5	14	1936	534
* 0847	M. Ishimoto K. Iida	Determination of Elastic Constants of Soils by Means of Vibration Methods.	5	14	1936	632
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No.	Author	Title	Source	No. or Vol.	Date	Page
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* 0855	T. Shibata H. Yukitomo	Shear Strength of Sand Under a Vibrating Load.	8	19-3	1970	27
* 0856	S. Murayama N. Yagi	On the Deformation Properties of Sands.	9	7	1963	24
* 0857	T. Shibata H. Yukitomo	Strength Characteristics of Saturated Sand under Oscillatory Loading Conditions.	9	12-B	1969	89
* 0858	K. Toki Y. Ishiguro	On the Weight Fluctuation of Saturated Sand during Vibration.	9	12-B	1969	117
* 0859	N. Yagi	On the Shearing Resistance of Sand.	9	13-B	1970	493
* 0860	S. Murayama N. Kurihara H. Sekiguchi	On Creep Rupture of Normally Consolidated Clays.	9	13-B	1970	525
* 0861	S. Murayama N. Yagi Y. Ishii	On the Strength Characteristics of Weathered Granite.	9	13-B	1970	611
0862	Y. Inose T. Takada K. Abe	Basic Research on Distribution of Ground Constants Along Caisson Foundations and Piles.	15	96	1957	163

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0863	S. Kudo	Investigation on Grouting Effect by Elastic Wave.	15	114	1963	129
*	0864	H. Arai Y. Umehara	Vibration of Saturated Sand Layers.	17	8-1	1969	85
	0865	T. Hatano H. Watanabe	Dynamic and Static Visco-Elastisity Coefficients and Poisson Ratios of Clay, Sand and Crashed Stone.	19	68032	1968	
*	0866	S. Tsuzuki	The Behaviour of Sand under Impact Loads.	23	76	1962	168
*	0867	J. Takeda H. Tachikawa	Strength Behavior of Sand Subjected to Vertical and Diagonal Dynamic Load by Footing.	23	103	1964	96
*	0868	H. Tachikawa J. Takeda	Mechanical Properties of Loose Sand Subjected to Dynamic Load by Shallow Footing.	23	Sup.	1965	342
*	0869	# Y. Konishi, et al	Experimental Research on the Frictional Resistance of Sand.	23	Sup.	1966	353
*	0870	S. Sunami	Character of Unstable Saturated Sand in Vibration.(2)	23	135	1967	39
*	0871	Y.Yokoo S.Sunami	Character of Unstable Saturated Sand in Vibration.(3)	23	138	1967	47
*	0872	# K. Kyo, et al.	An Experimental Study on Damping Characteristics of Sand.	23	Sup.	1967	166
*	0873	S. Ohara	Determination of Elastic Constants of Sands on the Variable Confining Pressures.	26	58	1958	82
*	0874	S. Murayama T. Shibata	On the Dynamic Consolidation of Clay.	26	62	1959	42
*	0875	T. Hatano H. Tsutsumi	Dynamical Compressive Deformation and Failure of Concrete Under Earthquake Load.	26	67	1960	19
*	0876	T. Hatano	Relations between Strength of Failure, Strain Capacity Elastic Modulus and Time to Failure of Concrete.	26	73	1961	24
*	0877	T. Hatano	Dynamical Behaviors of Concrete Under Periodical Compressive Load.	26	84	1962	19

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0878	T. Hatano	Theory of Failure of Concrete and Similar Brittle Solid on the Basis of Strain.	26	153	1968	31
*	0879	T. Hatano H. Watanabe	Dynamic and Static Visco-Elastic Constants and Poisson's Ratios of Clay,Sand and Crushed Stone.	26	164	1969	33
*	0880	S. Murayama K. Tanimoto	On the Vibration Characters of Granular Layers with Soft Underlying Layers.	27	41-3	1956	1
	0881	S. Murayama T. Shibata	Dynamic Characteristics of Clay.	28	I	1957	23
	0882	S. Murayama K. Tanimoto	Vibration Behavior of Coarse-Grained Soil.	28	I	1957	25
	0883	S. Murayama T. Shibata	Study on Dynamic Characteristics of Clay.	28	III	1959	19
	0884	Y. Ishii H. Tsuchida	Study on Vibration Behavior of Water-Saturated Sand Layer (First Report): Vibration Behavior of Sand Saturated with Water in a Rigid Box Caisson.	28	V	1961	13
	0885	H. Arai Y. Umehara	Vibration Behavior of Water-Saturated Sand Layer.	28	IX	1967	87
	0886	T. Shibata H. Tomoyuki H. Kobayashi	Deformation and Strength of Sand Layer Subjected to Vibration.	28	X	1969	5
	0887	H. Arai Y. Umehara	Influence of the Change in Rigidity on Vibration Behavior of the Sand Layer.	28	X	1969	9
	0888	S. Ohara	Measurement of Dynamic Elastic Constants of Sand under Various Stress Conditions.	29	5-1	1957	5
	0889	H. Yamahara	A Study on Sand-Slide of a Sand-Layer due to Earthquake	29	13-2	1965	3
	0890	J. Takenaka	Method of Modifying N-Value of the Deep Gravel Layer.	29	13-2	1965	34
	0891	J. Takeda H. Tachikawa	Dynamic Characteristics of Sand Layer Subjected to Dynamic Foundation Load Acting in Vertical and Diagonal Directions.	29	13-2	1965	50

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0892	S. Goto	Test on Collapse Conditions of the Sand Layer Slope by Vibration.	29	13-2	1965	72
	0893	S. Sasaki M. Nasu	Estimation by Shear Wave Test, of Stresses in and Collapse Conditions of Ground during Earthquake.	29	17-11	1969	5
	0894	A. Nojiri	Empirical Study on Elastic Constants of Ground.	31	18	1969	255
	0895	A. Hara T. Morishita	Study on Dynamic Characteristics of Soil by Dynamic Tri-AxialTesting Machine (Part I).	31	18	1969	261
*	0896	J. Takeda H. Tachikawa	Elastic-Plastic Properties of Sand Underlying Foundation Subjected to Dynamic Load.	36	I	1962	189
*	0897	Y. Ishii H. Tsuchida	On the Vibrational Characteristics of Saturated Sand.	36	I	1962	195
*	0898	S. Takeshita K. Futaba	Strength of Dry Sand in Vibration.	36	II	1966	67
*	0899	H. Arai Y. Umehara	Vibration of Dry Sand Layers.	36	II	1966	73
*	0900	M.A. Sherif R.C. Bostrom M.J. Wu	The Influence of Stress History on the Dynamic Behavior of Clays.	36	III	1970	145
*	0901	S. Morita K. Utsu M. Fuyuki M. Akaishi	Experimental Study on the Behavior of Soil under Dynamic Compressive Loads.	36	III	1970	153
*	0902	H. Kishida A. Takano	The Damping in the Dry Sands.	36	III	1970	159
*	0903	K. Ishihara N. Kawaguchi	Triaxial Torsion Shear Tests on Saturated Sands under Simulated Earthquake Loading Condition.	36	III	1970	175
*	0904	K. Tanimoto Y. Suga	On the Dynamic Strength of Saturated Sands.	36	III	1970	191
*	0905	K. Akai M. Hori	Consideration of Viscoelasticity on the Dynamic Behavior and the Stress Propagation of Saturated Clay.	36	III	1970	255

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0906	V. Vali R.C. Bostrom M.A. Sherif	Earth Strain Measurements with Laser Interferometer	36	III	1970	549
* 0907	S. Murayama T. Shibata	On the Dynamic Properties of Clay.	37	II	1960	297
* 0908	R.V. Whitman P.O. Pablo	Densification of Sand by Vertical Vibrations.	37	IV	1969	A5-29
		C - 3 Elastic Wave Velocity and Elastic Modulus				
* 0909	N. Nasu T. Hagiwara S. Omote	Studies on the Propagation of the Artificial Earthquake Waves through Superficial Soil or Sand Layers and the Elasticity of Soil and Sand (Part 1).	5	14	1936	560
* 0910	M. Ishimoto K. Iida	Determination of Elastic Constants of Soils by Means of Vibration Methods. Part 2. Modulus of Rigidity and Poisson's Ratio.	5	15	1937	67
* 0911	N. Nasu T. Hagiwara S. Omote	Studies on the Propagation of the Artificial Earthquake Waves through Superficial Soil or Sand Layers and the Elasticity of Soil and Sand. (Part 2)	5	15	1937	87
* 0912	K. Iida	The Velocity of Elastic Waves in Sand.	5	16	1938	131
* 913	K. Iida	Velocity of Elastic Waves in a Granular Substance.	5	17	1939	783
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* 0915	N. Nasu	Field Determination of the Elastic Property of Soil Layers. (I).	5	27	1949	101
* 0916	K. Kanai	The Result of Observation of Wave-velocity in the Ground.	5	29	1951	503
* 0917	K. Kanai K. Osada	The Result of Observation Concerning the Waves Caused in the Ground by Building Vibration.	5	29	1951	511
* 0918	G. Nishimura M. Suzuki E. Furukawa T. Kotaki K. Takahashi	A Newly Designed Prospedting Apparatus.	5	31	1953	317

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0919	H. Kawasumi E. Shima Y. Ohta M. Yanagisawa A. Allam K. Miyakawa	S-Wave Velocities of Subsoil Layers in Tokyo. 1.	5	44	1966	731
* 0920	E. Shima Y. Ohta	Experimental Study on Generation and Propagation of S-waves: I. Designing of SH-wave Generator and its Field Tests.	5	45	1967	19
* 0921	Y. Ohta E. Shima	Experimental Study on Generation and Propagation of S-waves: II. Preliminary Experiments on Generation of SV-waves.	5	45	1967	33
* 0922	Y. Ohta	Experimental Study on Generation and Propagation of S-waves:III. Generation of SV-waves by means of a Modified Explosion Source.	5	45	1967	727
* 0923	E. Shima M. Yanagisawa A. Allam	Experimental Study on Generation and Propagation of S-waves: IV. S-wave Prospecting by Means of Well Shooting.	5	46	1968	517
* 0924	E. Shima Y. Ohta M. Yanagisawa A. Allam	S-Wave Velocities of Subsoil Layers in Tokyo. 2.	5	46	1968	759
* 0925	E. Shima Y. Ohta M. Yanagisawa K. Kudo H. Kawasumi	S-Wave Velocities of Subsoil Layers in Tokyo. 3.	5	46	1968	1301
* 0926	E. Shima Y. Ohta M. Yanagisawa K. Kudo H. Kawasumi	S-Wave Velocities of Subsoil Layers in Tokyo. 4.	5	47	1969	819
* 0927	K. Kudo E. Shima	Attenuation of Shear Waves in Subsoil Layers.	5	48	1970	145

No.	Author	Title	Source	No. or Vol.	Date	Page
* 0928	N. Yagi Y. Ishii	On the Relationship of the Mechanical Properties of Soils and Rocks to the Velocity of Elastic Waves.	8	18-4	1969	15
* 0929	S. Yoshikawa C. Kitsunezaki	On the Application of Seismic Prospecting in Engineering Projects.	9	7	1963	39
* 0930	N. Goto	Seismic Prospecting by Three Component Seismographs in Borehole.	9	10-A	1967	181
* 0931	S. Yoshikawa M. Shima N. Goto J. Akamatsu	An Exploration Project with the Borehole Seismograph.	9	11-A	1968	155
* 0932	S. Murayama H. Sekiguchi	Theoretical Consideration of the Dynamic Elastic Moduli of Clay.	9	13-B	1970	543
* 0933	T. Shibata K. Toki K. Terada	Elastic Wave Velocities in Sandy Soil.	9	13-B	1970	593
0934	K. Ikeda T. Tanaka	Application of Seismic Prospecting Method to Railway Construction and Associated Problems (1).	18	180	1961	
* 0935	K. Ikeda T. Tanaka I. Higuchi	A Study on Method of Predicting Faults under Tunnelling.	18	561	1966	
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0937	N. Nasu	Travel Time Curve of Elastic Wave in the Soil Layer and Its Analysis.	21	11	1939	583
* 0938	Y. Baba	Investigation in the Ground by Means of Drop-weight at Tottori City.	23	57-1	1957	289
* 0939	K. Akai M. Tokuda T. Kiuchi	Experimental Study on the Propagation of Stress Wave in Cohesive Soils.	26	161	1969	59

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0940	T. Matsuzawa	Artificial Earthquakes.	28	II	1958	43
	0941	T. Imai M. Yoshimura	Elastic Wave Velocity and Its Dynamic Effects on the Soft Ground.	29	18-1	1970	17
*	0942	Y. Kanda	On the Relation between the Data of Boring in the Granite Area and the Seismic Wave Velocity.	35	5	1968	70
*	0943	T. Suzuki	On the Decay of the Explosion Seismic Waves in the Ground.	35	6	1969	68
*	0944	K. Nawa	The Effect of Millisecond-Delayed Blasting in Reducing Ground Vibrations.	36	I	1962	33
*	0945	E. Shima K. Kudo	Shear Wave Attenuation in Subsoil Layers.	36	III	1970	269
*	0946	C.M. Duke	Techniques for Field Measurement of Shear Wave Velocity in Soils.	37	IV	1969	A5-39
	0947	S. Kuri M. Abe T. Shimazaki	Method of Measuring Elastic Wave Velocity of Rock Core.	38	V	1968	185

C - 4 Ground Coefficient

	0948	T. Hatano H. Watanabe	Measurement of Dynamic Ground Coefficients (Application of Its Result to Clay Ground)	19	66088	1967	
*	0949	H. Watanabe T. Hatano	Measurement of Dynamic Modulus of Foundation (Size-effect of the Loading Disk on the Clay Foundation).	19	69037	1969	
	0950	T. Hisada K. Nakagawa	Ground Coefficients Estimated on the Basis of Proof Load Test Performed on the Building of Actual Site.	22	18	1952	137
*	0951	K. Nakagawa	Coefficients of Subgrade Reaction Obtained from Vibration Tests on Building Structures and Model Foundation Blocks.	23	69-1	1961	433
*	0952	S. Yamamoto T. Seki	Study on Relationship between Coefficient of Subgrade Reaction and Base Contact Area of Foundations.	23	103	1964	97

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	0953	H. Murahashi	Study on the Settlement and Lateral Force Coefficient of Space Rigid Frame Structures with Seismic Walls.	23	Sup.	1965	196
*	0954	H. Watanabe T. Hatano	Measurement of Dynamic Modulus of Foundation - Size-effect of Loading Disk on the Clay Foundation.	26	178	1970	47
*	0955	M. Ojima	A Basic Study on Liquefaction Mechanism of Saturated Sand Layer.	26	184	1970	79
	0956	H. Tsutsumi	Dynamic Ground Coefficient of Soft Ground.	28	VI	1963	13
	0957	K. Kotsubo K. Hanada	Theoretical and Experimental Study on Dynamic Horizontal Reaction Forces of the Ground.	28	IX	1967	59
	0958	I. Yoshinda K. Komada	On the K Value in the Lateral Direction of the Ground.	29	13-3	1965	25
*	0959	T. Suzuki	Coefficient of Dynamic Subgrade Reaction.	35	4	1966	92
			C - 5 Bearing Capacity				
*	0960	S. Murayama K. Ueshita J. Yamamoto	Researches on the Cbr Test and Simple Tests to Estimate Cbr.	9	2	1958	113
	0961	H. Tsutsumi K. Hashimoto	Experimental Study on Dynamic Supporting Force of Sandy Ground.	19	68025	1968	
*	0962	H. Tajimi M. So K. Kashiuchi	A Model Experiment for Bearing Capacity of Sand during Horizontal Vibration.	23	89	1963	259
*	0963	M. Itoh, et al.	Bearing Capacity of Sandy Soil during Earthquakes. No. 1. Dry Sand.	23	Sup.	1966	364
*	0964	# T. Kitazono, et al.	Bearing Capacity of Sandy Soil during Earthquakes. No. 2. Saturated Sand.	23	Sup.	1966	365
	0965	K. Takeyama	The Ground Bearing Test of the Largest Scale in History.	25	201	1968	123
	0966	M. Hatanaka	On the Stability of the Slope during Earthquake Vibrations (2nd Report).	28	II	1958	15

No.	Author	Title	Source	No. or Vol.	Date	Page
0967	T. Tateishi K. Kubo H. Suda	Supporting Capacity of Ground for Eccentric Tilting Load.	28	II	1958	25
0968	Y. Ishii H. Arai	Study on the Stability of the Slope during Earthquakes (1st Report).	28	II	1958	33
0969	S. Shiraishi	Resistance of the Foundation of the Structure to the Overturning Force.	28	III	1959	7
0970	M. Hatanaka B. Iwata	On the Stability of the Slope during Earthquake Vibrations (3rd Report).	28	III	1959	11
0971	T. Tateishi H. Suda	Experimental Study on Supporting Capacity of the Sandy Ground Subjected to Eccentric Tilting Load. (2nd Report).	28	III	1959	15
0972	H. Tsutsumi	Dynamic Supporting Capacity of Piles on the Silt Ground.	28	VIII	1965	9
0973	S. Okamoto	On the Supporting Capacity of and Pressure in the Soil during Earthquakes.	29	5-2	1957	4
0974	T. Yamauchi	Experimental Study on the Reduction of Supporting Capacity of Sand Layer due to Horizontal Vibrations.	29	6-3	1958	19
0975	K. Tanimoto	On the Dynamic Supporting Capacity of Soil.	29	7-5	1959	14
0976	I, Toriumi	Ground Reaction on and Displacement of the Deep Foundation Subjected to Horizontal Force.	29	12-1	1964	27
0977	S. Ohara	A Model Test on Supporting Capacity of Piles in the Sand Layer Subjected to the Horizontal Vibration.	29	15-8	1967	31
* 0978	S. Okamoto	Bearing Capacity of Sandy Soil.	37	I	1956	27-1
* 0979	H.B. Seed	Soil Strength during Earthquakes.	37	II	1960	183
* 0980	Z. Bažant	Stability of Saturated Sand during Earthquake.	37	III	1965	I-6
0981	M. Matsuura	On the Allowable Amount of Settlement of Buildings on the Soft Ground.	38	II	1965	157

	No.	Author	Title	Source	No. or Vol.	Date	Page
	0982	M. Matsuura	Unequal Settlement of the Building Constructed on Deep Foundation.	38	IV	1967	115
	0983	M. Matsuura	On the Unequal Settlement of the Building Constructed on the Masa Ground.	38	VII	1970	213
			C - 6 Earth Pressure				
*	0984	N. Mononobe H. Matsuo	Experimental Investigation of Lateral Earth Pressure during Earthquakes.	5	10	1932	884
*	0985	T. Ishihara M. Ojima	A Fundamental Study on Pore Water Pressure during Vibration.	9	12-B	1969	97
*	0986	S. Ibukiyama K. Sato	Experimental Study on the Lateral Bearing Capacity of a Highway Guardrail Post.	15	102	1959	145
	0987	H. Matsuo	Experimental Study on Earth Pressure during Earthquakes.	16	22	1932	1
	0988	H. Matsuo	Test on the Effect of Reducing Soil Pressure in the Back-Fill of the Retaining Wall.	16	31	1935	133
	0989	H. Matsuo	Experimental Study on Earth Pressure of the Retaining Wall during Earthquakes. (1st Report).	16	68	1942	51
	0990	H. Matsuo	Experimental Study on Earth Pressure of the Retaining Wall during Earthquakes. (2nd Report).	16	69	1943	21
*	0991	Y. Ishii H. Tsuchida T. Furube	Studies on Lateral Earth Pressure and Dynamic Pore Water Pressure of Water Saturated Sand during Vibration.	17	2-2	1963	25
*	0992	H. Arai	Note on the Earth Pressure in Earthquakes - on the Case of Dry Sand.	17	4-2	1965	1
	0993	T. Hatano	On the Resonance of Dynamic Water Pressure Due to the Elasticity of Water during Earthquakes.	19	65070	1965	
*	0994	T. Hatano H. Imai	Mathematical Analysis of Dynamic Water Pressure Acting on the Arch Dam during Earthquakes.	19	65081	1966	

	No.		Author	Title	Source	No. or Vol.	Date	Page
*	0995		K. Kotohda Z. Yamashita	Earth Pressure Tests with Model Sheet Pile - Sand.	23	57-1	1957	273
*	0996		K. Kotohda	Experimental Study of Soil Pressure Increase in Sheet Pile.	23	60-2	1958	665
*	0997		K. Washio T. Fujiwara Y. Baba	On the Measurement of Pressure in Piles and Soil under the Foundation of a High-storied Building.	23	60-2	1958	669
*	0998		K. Kotohda J. Yamashita	Study on Earth Pressure and Wall Rigidity - Model Test.	23	63-1	1959	685
*	0999		K. Kotohda K. Minow M. Endoo T. Kawasaki	Measurements of Lateral Earth Pressure to be Used for Opencut Struts - in Cohesive Soil.	23	63-1	1959	689
*	1000		A. Minow M. Endo T. Kawasaki M. Unno M. Niwa	Measurements of Lateral Earth Pressure to be Used for Opencut Struts - in Marunouchidani Quaternary Silty Soil.	23	66-1	1960	621
*	1001		F. Ashisawa T. Ando	Measurements of Strut Loads of Strutted Excavation II (in Sand).	23	66-1	1960	625
*	1002		H. Nagai Y. Kanaya K. Kotohda	Field Measurement on Earth and Water Pressure	23	66-1	1960	641
*	1003		Y. Ohsaki	On Compressive Strength of Undisturbed Cohesive Soils under Transient Loading.	23	98	1964	24
*	1004	#	T. Hashiba, et al.	An Experimental Study of a Rigid Wall Subjected to Earth Pressure and Its Displacement - Part 1: Project of Experiment.	23	Sup.	1965	347
*	1005	#	K. Kyo, et al.	An Experimental Study of a Rigid Wall Subjected to Earth Pressure and Its Displacement - Part 2: Results of Preliminary Experiment.	23	Sup.	1965	348

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1006	T. Ando	Earth Pressure Distribution Estimated by Strut Loads.	23	Sup.	1965	349
* 1007	# O. Tanaka, et al.	Measurements of Thrust in Excavation - by Earth Pressure Gauges on Sheet Piles.	23	Sup.	1965	351
* 1008	K. Kotohda	Measurements of Thrust in Excavation - by Strain Gauges and Oil Pressure Meters.	23	Sup.	1965	352
* 1009	# K. Kyo, et al.	An Experimental Study of A Rigid Wall subjected to Earth Pressure and its Displacement - Part 3: Put Inward or Outward in Loose Sand.	23	Sup.	1966	366
* 1010	# S. Yamada, et al.	An Experimental Study of a Rigid Wall subjected to Earth Pressure and its Displacement - Part 4: Put Inward and Outward Alternatively in Loose Sand.	23	Sup.	1966	367
* 1011	# Y. Kanaya, et al.	A Measurement of Earth Pressure on Rigid Wall.	23	Sup.	1966	368
* 1012	K. Yamagata	Distributions of Lateral Earth Pressure on Sheet Piles.	23	Sup.	1966	369
* 1013	# M. Hanamura, et al.	Experiments on Cantilever Model Sheet Piles Subjected to with Lateral Pressure.	23	Sup.	1966	370
* 1014	# T. Yahiro, et al.	Measurement of the Behaviors of Soil Behind of Tie-Rod Type Sheathing Wall.	23	Sup.	1966	371
* 1015	# H. Hatano, et al.	Measurements of Strut Load in Excavation.	23	Sup.	1966	372
* 1016	S. Yamamoto N. Kometani	Horizontal Resistance of Pile for Rapidly Reduced Spring System near Top of Pile.	23	149	1968	55
* 1017	S. Niwa	Measurements of Oscillating Earth Pressure Caused by the Earthquake Generator.	26	60	1959	54
* 1018	T. Hatano	Experimental Study on the Seismic Pressure of Sand to the Fixed Wall.	26	80	1962	43
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No.	Author	Title	Source	No. or Vol.	Date	Page
* 1021	S. Ohara	On Relation Between Characteristic of Cell and Measurement of Dynamic Pore Water Pressure.	26	108	1964	13
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* 1024	S. Murayama H. Matsuoka	Earth Pressure on Tunnels in Sandy Ground.	26	187	1971	95
* 1025	S. Okabe	General Theory on Earth Pressure and Seismic Stability of Retaining Wall and Dam (Addendum).	27	11	1925	435
1026	H. Matsuo S. Ohara	Earth and Water Pressures Acting on the Quay Wall during Earthquakes.	28	I	1957	27
1027	M. Kondo S. Niwa	On the Earth Pressure Test during Earthquakes.	28	II	1958	3
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1029	H. Matsuo S. Ohara	Study on Earth Pressure Acting on the Quay Wall during Earthquakes.	28	III	1959	21
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1033	S. Niwa	Vibration of the Wall and Dynamic Pressure in the Loaded Back-Fill.	28	V	1961	11

No.	Author(s)	Title	Source	No. or Vol.	Date	Page
1034	M. Hatano	Dynamic Pressure of Sand Acting on the Fixed Wall.	28	V	1961	15
1035	H. Matsuo S. Ohara	Dynamic Earth Pressure Acting on Sheet-Pile Quay Wall during Earhtquakes.	28	V	1961	17
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1037	S. Ichihara A. Yoshinaga R. Inoue	Sand Tank Shaken and Instrumentation for Measuring Earth Pressure during Earthquakes by Utilizing Resonance.	28	VI	1963	15
1038	S. Ohara	On Fluctuating Pressures Acting on the Movable Wall.	28	VII	1964	3
1039	H. Goto K. Toki Y. Yokoyama	Non-Stationary Dynamic Water Pressure Acting on Under Water Bridge Piers.	28	VII	1964	21
1040	K. Tamura K. Shimizu	Observation of Water Pressure Acting on the Wall Surface of Two-Lane Rigid Frame Highway Bridge during Earthquakes.	28	IX	1967	13
1041	S. Ohara	Experimental Study on the Primary Earth Pressure during Earthquake.	28	X	1969	21
1042	S. Okamoto M. Hakuno	On the Change in Contact Pressure in a Sand Grain Subjected to Dynamic Load.	29	12-10	1964	37
1043	S. Ichihara, et al.	Measurement of Tie-Rod Tension and Earth Pressure on the Quay Wall at the Foot of a Mountain before and after the Niigata Earthquake.	29	14-3	1966	13
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1045	T. Kawasaki T. Hashiba Y. Mende M. Tamaki	Result of Measurement of Earth Pressure Acting on the Continuous Walls and Study on the Earth Pressure Acting on the Buried Portion.	29	19-1	1971	9

No.	Author	Title	Source	No. or Vol.	Date	Page
1046	H. Yamahara	Measurement of Vibration and Earth Pressure during the Pit Excavation along the Railways.	32	1	1962	63
* 1047	S. Ohara	Experiment of Seismic Earth Pressure.	36	II	1962	115
* 1048	S. Ichihara	Dynamic Earth Pressure in the State of Plastic Equilibrium.	36	II	1962	121
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* 1050	S. Ohara	Experimental Studies of Seismic Active and Seismic Passive Earth Pressure.	36	III	1970	137
* 1051	H.Tajimi	Dynamic Earth Pressure on Basement Walls in the Elastic Ground.	36	III	1970	477
* 1052	S. Yoshihara M. Kitaura	Experimental Study on the Restoring Force and Earth Pressure Acting on Model Substructures.	36	III	1970	611
* 1053	H.B. Seed K.L. Lee	Pore-Water Pressures in Earth Slopes under Seismic Loading Conditions.	37	IV	1969	A5-1
* 1054	A.F. Victoria I. Herrera C. Lozano	Hydrodynamic Pressure Generated by Vertical Earthquake Component.	37	IV	1969	B4-25
* 1055	B. Nath	Hydrodynamic Pressures on Arch Dams during Earthquakes.	37	IV	1969	B4-97
1056	S. Ichihara	An Experimental Study on Earth Pressure during Earthquakes.	38	I	1964	125
1057	S. Ichihara H. Matsuzawa K. Asai K. Hishida	A Proposed Method of Evaluating the Earth Pressure during Earthquake.	38	VI	1969	59

C - 7 Liquefaction

* 1058	T. Shibata	Analysis of Liquefaction of Saturated Sand during Cyclic Loading.	9	13-B	1970	563

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1059	K. Tanimoto M. Nishi	Study on Settlement Associated with Liquefaction of Sand Subjected to Impact Loads.	26	152	1968	39
*	1060	T. Shibata H. Yukitomo	Liquefaction of Saturated Sands during Cyclic Loading.	26	180	1970	83
*	1061	M. Ojima Y. Koga	Experimental Study on Liquefaction of Saturated Sand Layers.	26	191	1971	91
	1062	H. Tsuchida	An Experimental Study on Liquefaction of Sand Layer.	28	VIII	1965	7
	1063	H. Tsuchida	Pressure of the Sand Layer Liquefied by Vibration on the Walls.	29	16-5	1968	3
*	1064	K. Tanimoto	On Rise of Ground-water Due to Dynamic Loads.	36	II	1966	105
*	1065	K. Kotohda T. Morioka	Study on the Mechanism of Excess Hydraulic Pressure during Vibration.	36	II	1966	111
*	1066	T. Shibata	Liquefaction of Saturated Sand during Cyclic Loading.	36	III	1970	167
*	1067	Y. Yoshimi H. Oh-oka	Liquefaction of Saturated Sand during Vibration under Quasi-Plane-Strain Conditions.	36	III	1970	183
			C - 8 Ground Settlement				
*	1068	N. Miyabe	On Depression of the Earth's Crust in Honzyo and Hukagawa, Tokyo.	5	10	1932	844
*	1069	N. Miyabe	On the Sinking of the Earth's Crust in the Eastern Part of the City of Tokyo.	5	13	1935	763
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No.	Author	Title	Source	No. or Vol.	Date	Page
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1081	K. Watanabe	The Problem of Ground Subsidence in Koto Area.	21	9	1937	143
1082	G. Kitazawa	On the Relationship between the Amounts of Ground Subsidence and Rain Fall.	21	11	1939	260
1083	N. Miyabe	The Change in the Ground Subsidence Rate in Tokyo.	21	11	1939	414
1084	T. Endo	The Ground Subsidence of the Alluvium in the Delta (or Lower Land Area) of Tokyo.	29	19-3	1971	51
1085	I. Matsuzawa	Geolgoy and Ground Subsidence of the Nobi Plain.	38	I	1964	28

C - 9 Geological Mapping

No.	Author	Title	Source	No. or Vol.	Date	Page
1086	K. Takeyama J. Iwatsu K. Nakagawa	Investigation of Ground Characteristics and the Seismic Intensity Map of Toyohashi City.	22	27	1954	221
1087	Y. Sakai M. Minato K. Tajime	Investigation of Ground Characteristics in and near Sapporo City.	38	V	1968	189
1088	M. Minato K. Tajime Y. Sakai	Investigation of the Ground Condition around Tomokomai City from the View Point of Earthquake Prevention.	38	VI	1969	71
1089	T. Nakano H. Kadomura I. Matsuda	Seismological Map and Its Construction.	38	VI	1969	77

STRUCTURES

D - 1 Vibration Tests of Buildings, Observations of Earthquake Ground Motions

D - 1 - 1 Vibrations of Buildings, General

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1090	J. Sakurai	Study on Multi-Mass Shear Vibration Systems. - 2	23	103	1964	111
* 1091	T. Tajime S. Terada T. Mochizuki	Vibrational Property and Earthquake Response of Tall Building Located in the Soft Layer - Part 1.	23	103	1964	112
* 1092	T. Tajime S. Terada T. Mochizuki	Vibrational Property and Earthquake Response of Tall Building Located in the Soft Layer. -Part 2.	23	103	1964	113
* 1093	M. Murakami H. Ohyama	The Vibration Behaviour of the Structure and the Boundary Effects at the Foundation -Part 3. The Effects of the Fixed Condition at the Boundary on the Damping and the Period.	23	103	1964	122
* 1094	R. Tanahashi T. Nakamura S. Ishida	On the Behavior of a Multi-Story Steel Frame Subjected to Earthquakes - II. The Normal Modes.	23	103	1964	123
* 1095	# Y. Kobayashi, et al.	Experimental Study on Vibration of Suspended Roofs.	23	Sup.	1967	198
* 1096	T. Naito	On Vibration of Building	24	447	1923	409
* 1097	Y. Nagata	On Vibration of Building.	24	447	1923	412
* 1098	S. Horikoshi	On Vibration of Building.	24	449	1924	515

D - 1 - 2 Vibration Tests of Buildings

1099	F. Ohmori A. Iguchi A. Tanakadate B. Mano S. Tanabe K. Sekiya	Report on the Method of Generating Artificial Earthquakes.	1	2	1894	163

No.	Author	Title	Source	No. or Vol.	Date	Page
1100	F. Ohmori	The Investigation Report on the Vibration Test of the Structure; First Volume.	1	97-A	1921	1
* 1101	F. Ohmori	Motion of a Brick Wall Produced by Earthquake. (With Plates XXIII-XXVI).	2	12	1902	57
* 1102	M. Ishimoto	Vibration d'un Batiment Deciment Sans Etage.	5	1	1926	4
* 1103	A. Imamura F. Kishinouye	On the Vibration of the Imperial Diet Building. (2nd Report).	5	5	1928	143
* 1104	Y. Uchida T. Saita K. Muto	An Investigation of the Vibration of a Steel Frame.	5	6	1929	345
* 1105	T. Fukutomi	On the Vibration of the Takeda Building.	5	9	1931	485
* 1106	K. Sezawa K. Kanai	Model Experiment Confirmations of a Dynamic Method of Minimizing the Seismic Vibrations of a Structure.	5	15	1937	598
* 1107	K. Kanai	Model Experiments of a Dynamic Damper for Seismic Structural Vibration. (Irregular Vibration.)	5	16	1938	21
* 1108	T. Saita	Vibrations of the Keep of Nagoya Castle Due to Earthquake and Wind Pressure.	5	16	1938	145
* 1109	T. Saita	Experiments in the Vibration and Destruction of a Wooden Dwelling House.	5	17	1939	152
* 1110	K. Kanai	Vibration Experiments with an Actual Wooden Building Conducted with a View to Confirming the Aseismic Properties of the Brace - Struts (Sujikai) and the Principal Column (Daikoku-Basira).	5	20	1942	538
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* 1112	K. Kanai T. Tanaka T. Suzuki	Vibration Experiments with the Actual Buildings.	5	27	1949	91

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1113	N. Nasu	Vibration Tests of Defective Buildings.	5	28	1950	349
* 1114	K. Kanai T. Tanaka	Vibration Test of Actual Reinforced Concrete Building.	5	29	1951	617
* 1115	K. Kanai S. Yoshizawa	On the Damping of Vibration of Actual Buildings. I.	5	30	1952	121
* 1116	M. Suzuki R. Shoji	Aseismic Properties of a Wooden House. Part 1. (Vibration Test by Means of Artificial Force.)	5	34	1956	381
* 1117	F. Kishinouye	Phase Lag of Vibrations of Buildings Excited by a Vibrator.	5	35	1957	377
* 1118	K. Kanai F. Kishinouye N. Nasu H. Kawasumi	Vibration of a Reinforced Concrete Building moved with Vibration Generators.	5	36	1958	165
* 1119	K. Kanai T. Tanaka T. Suzuki	Rocking and Elastic Vibrations of Actual Building. I. (Experiments by Vibration Generator).	5	36	1958	183
* 1120	G. Nishimura M. Suzuki	Aseismic Properties of a Wooden House. (III).	5	38	1960	329
* 1121	K. Kanai S. Yoshizawa	On the Period and the Damping of Vibration in Actual Buildings.	5	39	1961	477
* 1122	Y. Ohsawa M. Murakami T. Minami H. Umemura H. Aoyama M. Ito T. Endo	Study on the Earthquake Resistivity of Wooden Houses. Part 1. On the Aseismic Experiment of a Wooden House in Wakaho Town in Connection with the Damage Due to Matsushiro Earthquake.	5	45	1967	473
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No.	Author	Title	Source	No. or Vol.	Date	Page
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1126	G. Nishimura H. Furukawa	Characteristics of Shock-Absorbing Rubber	11	3	1951	26
1127	K. Ono	Seismic Proof-Load Test.	11	3	1951	246
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1133	F. Takabeya	Dynamic Test on Collapse of Rigid Frames.	20	1	1937	77
1134	R. Tanahashi	Study on Vibration Behavior of Building Steel Frames.	20	1	1973	92
1135	T. Kono	Vibration Test of the Wooden Building (One-story without Walls)	20	2	1942	1
1136	T. Kono	Vibration Test of the Wooden Building (Two-Story-Building without Walls).	20	2	1942	14

	No.	Author	Title	Source	No. or Vol.	Date	Page
	1137	T. Saita	Study on Vibration of Wooden Building.	20	2	1942	32
	1138	F. Takabeya	Dynamic Test on Rigid Frames and Contollability of Their Vibrations.	20	2	1942	55
	1139	R. Tanahashi	Forced Oscillation of Reinforced Concrete Building.	20	2	1942	70
	1140	T. Taniguchi	Study on Vibration Damping of Building (2nd Report)	20	2	1942	107
	1141	G. Kume T. Fukutomi	Report on Vibration Test of Two Western Style Wooden Buildings.	21	4	1932	657
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	1145	K. Washio S. Okujima Y. Kosaka	Vibration Test of Mortar Floor Slab.	22	7	1950	107
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	1147	T. Kono K. Matsushita T. Hisada	Full-scale Vibration Test of Residential Houses. Part 1. Structural Testing.	22	14	1951	227
	1148	T. Kono K. Matsushita T. Hisada	Full-scale Vibration Test of Residential Houses. Part 2. Testing on the Walls.	22	14	1951	231
	1149	Y. Yokoo M. Hatanaka	Report on the Vibration Test of Shear Wall Reinforced Apartment Building.	22	18	1952	47
	1150	K. Nakagawa	The Result of Vibration Test on the Existing Buildings.	22	20	1952	79

No.	Author	Title	Source	No. or Vol.	Date	Page
1151	R. Tanahashi H. Ishizaki	Vibration Test on the Telephone Company Building outside Kobe City: Measurement and Study of the Resonance Curve.	22	20	1952	85
1152	K. Kanai T. Suzuki T. Hisada K. Nakagawa	Vibration Tests on Identically Designed Buildings Built on Different Ground; Part 1, Test by Vibration Exciter.	22	24	1953	185
* 1153	F. Takabeya	Experimental Investigation of the Weakest Points of Tall Framed Structures against Earthquake and Method of Reinforcement.	23	1	1936	201
* 1154	H. Tanabe T. Katuta T. Azuma	Impact Tests of Structures under Falling Load.	23	3	1936	47
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* 1156	S. Kawasima	Measurement of Vibration of Buildings.	23	11	1938	6
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* 1159	R. Oka	Experimental Study of Anti-earthquake Construction.	23	13	1939	204
* 1160	T. Taniguchi	Analytical Investigation of Damping Factors of Various Building Cosntructions. Part 3. Wooden Constructions.	23	13	1939	220
* 1161	S. Kawashima	Vibration and Impact Transmission and Prevention in Solid Materials.	23	14	1939	63
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	No.	Author	Title	Source	No. or Vol.	Date	Page
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*	1167	R. Oka	Experimental Study on the Hysteresis Curve of Aseismic and Wind Resistant Construction by a Model of Three Dimensional Similarity.	23	23	1941	97
*	1168	R. Oka	Properties of Models Constructed According to Aseismic and Wind Resistant Construction Theory.	23	24	1942	91
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*	1170	T. Taniguchi T. Tajime	Resistance of Wooden Framed Construction to Impulsive Forces.	23	25	1942	238
*	1171	R. Oka	Experimental Study on the Influence of Natural Period of the Superstructure on the Vibration of Aseismic Structures.	23	25	1942	327
*	1172	S. Ban S. Okujima H. Fukushima	Report on the Load Test and Vibration Test of Reinforced Concrete Slabs.	23	28	1943	90
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	1174	T. Taniguchi T. Tajime	Study on the Strength of Corners of Wooden Structures against Impact.	23	33-1	1944	25
	1175	T. Taniguchi T. Tajime	Influence of the Load Carried by Reinforced Concrete Rigid Frames on their Resonance Amplitude.	23	33-1	1944	26
*	1176	R. Oka	Research on Vibration Damping Characteristics for Horizontal Framing with Walls.	23	36	1947	44
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	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1178	K. Muto H. Umemura T. Shiga Y. Higashi	Study on the Vibration of a Tall Factory Building and Its Prevention.	23	38	1949	56
*	1179	Y. Sakai	An Experimental Research on the Strength of Wooden Beams Subjected to Suddenly Applied Load (Part 1).	23	38	1949	63
*	1180	T. Taniguchi	Seismic Distribution Coefficients of Earthquake-proof Wall.	23	41	1950	62
*	1181	T. Hisada	On the Resisting Strengths and Properties of the Walls in Wooden Buildings.	23	42	1951	71
*	1182	H. Ishizaki	Consideration on Vibration Test Results of Several Buildings.	23	49	1954	69
*	1183	T. Hisada K. Nakagawa T. Sato	Relation between Vibrational Behaviors and Amount of Wall Length in Wooden Buildings.	23	54	1956	193
*	1184	N. Ando	A Model Experiment on One Mass Non-linear Vibration in Plastic Range.	23	57	1957	313
*	1185	K. Nakagawa	Dynamical Proof Test of a "Thermo-con" Construction Full Size Test Building.	23	57	1957	329
*	1186	S. Hiruta T. Odaka	Study on the Disposition of Seismic Walls by the Model Tests. (Part 1).	23	57	1957	345
*	1187	T. Odaka	Study on the Disposition of Seismic Walls by the Model Tests. (Part 2).	23	57	1957	349
*	1188	Y. Sonobe	Study on the Large Amplitude Vibration of Slender Buildings Due to Earthquake Motion Elastic Vibration of the Models.	23	60-1	1958	273
*	1189	Y. Sakai	Research on the Rocking Vibrations of Building Models - Especially about Free Vibrations. (Report No. 1)	23	60-1	1958	281
*	1190	K. Washio	Influence of Vibration on the Strength of Concrete.	23	60-1	1958	573

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1191	A. Odaka F. Horie	On the Natural Period of Building.	23	63-1	1959	253
* 1192	H. Umemura Y. Sonobe	Study on Overturning Vibration of Slender Structures.	23	63-1	1959	257
* 1193	H. Umemura Y. Sonobe	Study on Large Amplitude Vibration of Slender Structures Due to Earthquake Motion.	23	63-1	1959	261
* 1194	A. Odaka F. Horibe T. Suzuki	Report on the Vibrational Test of one Telephone Office Building (1).	23	66-1	1960	269
* 1195	A. Odaka F. Horie T. Suzuki	Report on the Vibrational Test of one Telephone Office Building (2).	23	66-1	1960	273
* 1196	A. Odaka F. Horie T. Suzuki	Report on the Vibrational Test of one Telephone Office Building (3).	23	66-1	1960	277
* 1197	A. Odaka F. Horie T. Suzuki	Report on the Vibrational Test of one Telephone Office Building. (4).	23	66-1	1960	281
* 1198	T. Naito N. Nasu M. Takeuchi G. Kubota	Vibrational Characteristics of Actual Buildings Determined by Vibrational Tests.	23	66-1	1960	285
* 1199	K. Washio K. Ban Y. Gyoten K. Takeyama	Report of Field Tests of Large Span Light Gage Steel Arch of Lattice Type - Dynamic Behavior of the Structure.	23	66-1	1960	517
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* 1201	T. Naito N. Nasu	On Damping of Vibration of Actual Buildings.	23	69-1	1961	425

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1202	M. Izumi	An Analysis of Building Vibrations. (Part 1).	23	69-1	1961	429
*	1203	K. Nakazato T. Odaka T. Suzuki F. Horie	A Study on Aseismic Element - on the Bracing Frame.	23	69-1	1961	437
*	1204	S. Mochizuki	Experiments on the Reinforced Concrete Walls under the Dynamical Repeated Shear Loading.	23	69-1	1961	465
*	1205	J. Sakamoto S. Igarashi J. Sumita	Experimental Research on Behaviors of Steel Constructions Under Cyclic Loading.	23	75	1962	19
*	1206	A. Odaka	On the Period in Actual Buildings.	23	76	1962	79
*	1207	T. Shiga J. Ogawa	Vibration Test for Statical Indeterminate Beams.	23	76	1962	87
*	1208	J. Sumita S. Igarashi J. Sakamoto	Experimental Research on Behaviors of Steel Connections under Cyclic Loading.	23	76	1962	90
*	1209	S. Mochizuki	Experiments on the Reinforced Concrete Walls under the Dynamical Repeated Shear Loading (On the Deformation).	23	76	1962	113
*	1210	H. Umemura I. Matsushima C. Ueda and four others	Horizontal Loading and Vibration Test on the Two-story Reinforced Concrete Structure.	23	76	1962	127
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*	1212	T. Shiga	Torsional Vibrations of Multi-Story Buildings.	23	89	1963	185
*	1213	H. Kobayashi	Application of Autocorrelation Curve to Determine Natural Period of Structure.	23	89	1963	186
*	1214	I. Funahashi K. Kinoshita A. Shibata	The Vibrational Analysis of the Tower Building - The Vibration Test and Earthquake Response of San-ai Building.	23	89	1963	190

	No.		Author	Title	Source	No. or Vol.	Date	Page
*	1215		C. Katsuta N. Mashizu H. Uno	Earthquake Isolation Method of Structure by a High Speed Electrohydraulic Servomechanism - II, Model Test and Results.	23	102	1964	17
*	1216		M. Takeuchi M. Hara T. Kazama	Vibrational Characteristics of Tall Building - Model Experiment, No. 1.	23	103	1964	121
*	1217		S. Watanabe T. Fukushima S. Nishimura	The Vibrational Analysis of a Steel Structure - No. 1 Description of Vibration Recordings.	23	103	1964	125
*	1218		S. Watanabe T. Fukushima Y. Kida	The Vibrational Analysis of a Steel Structure - No. 2 Damping Properties.	23	103	1964	126
*	1219		S. Tani J. Sakurai H. Sekine	Experimental Study on Arrangement of Aseismic Elements.	23	103	1964	132
*	1220		C. Ueda	Horizontal Loading and Vibration Test on the Actual SRC Frame.	23	103	1964	197
*	1221	#	S. Kazama, et al.	Vibrational Characteristics of Tall Building (Model Experiment No. 2.)	23	Sup.	1965	147
*	1222		J. Ogawa	Study on Equivalent Viscous Damping of Reinforced Concrete Structures.	23	Sup.	1965	148
*	1223	#	T. Tanimoto, et al.	On the Vibration of Handai Hospital Building.	23	Sup.	1965	150
*	1224	#	S. Ishida, et al.	On the Behavior of a Multi-Story Steel Frame Subjected to Earthquakes. - IV.	23	Sup.	1965	152
*	1225	#	T. Suzuki, et al.	Vibrational Analyses for Marunouchi Building and Nihon-Kogyo Bank.	23	Sup.	1965	153
*	1226	#	Y. Ohsawa, et al.	Structural Dynamic Research on the Multi-Story Steel Framed Apartment Buildings - Part 1. Outline of the Experiment.	23	Sup.	1965	155

No.		Author	Title	Source	No. or Vol.	Date	Page
* 1227	#	M. Murakami, et al.	Structural Dynamic Research on the Multi-Story Steel Framed Apartment Buildings - Part 2. Results of the Experiment.	23	Sup.	1965	156
* 1228	#	R. Tamura, et al.	Structural Dynamic Research on the Multi-Story Steel Framed Apartment Buildings - Part 3. Analytical Study.	23	Sup.	1965	157
* 1229	#	S. Watanabe, et al.	The Vibration Test of Multi-Story Building of Yokohama Dream-land High-Tower Hotel (Part 1. General Description of the Experiment).	23	Sup.	1965	158
* 1230	#	S, Shimaguchi, et al.	The Vibration Test of Multi-Story Building of Yokohama Dream-land High-Tower Hotel (Part 2. Free Vibrational Test by Partial Cutting of the Structural Component).	23	Sup.	1965	159
* 1231	#	J. Yoshihara, et al.	The Vibration Test of Multi-Story Building of Yokohama Dream-land High-Tower Hotel (Part 3. Externally Forced Vibrational Test by Vibrators).	23	Sup.	1965	160
* 1232	#	H. Tane, et al.	Earthquake Resistibility of a Prefecture Hall.	23	Sup.	1965	162
* 1233		T. Horiguchi, et al.	Experimental Study on the Actual Prefabricated Steel Structure - No. 2 Dynamic Load.	23	Sup.	1965	325
* 1234		H. Umemura Y. Osawa M. Murakami T. Tsuboi A. Yokozuka R. Tamura	Forced Vibration Experiment on the Multi-Story Steel Framed Apartment Building and Its Analytical Study.	23	129	1966	1
* 1235		S. Ishimaru H. Tajime	An Experimental Study on the Maximum Response of Simple Linear Structures to a Random Earthquake Input.	23	Sup.	1966	130
* 1236	#	H. Tane, et al.	Natural Periods and Modes of Shear-Bending Vibration of Braced Frames.	23	Sup.	1966	147
* 1237	#	S. Kazama, et al.	Vibrational Characteristics of Tall Building - Model Experiment No. 3	23	Sup.	1966	152
* 1238	#	H. Kushida, et al.	Free Vibration Tests of Steel Frame Structure of "Oimachi Daiichi Mutual Insurance Building."	23	Sup.	1966	162

	No.		Author	Title	Source	No. or Vol.	Date	Page
*	1239		T. Minami	Vibration Tests of Model Reinforced Concrete Frames - Part 2.	23	Sup.	1966	164
*	1240	#	Y. Yamazaki, et al.	A Study of Structural Damping.	23	Sup.	1966	165
*	1241		J. Ogawa	An Experimental Study on Dynamic Behavior of Reinforced Concrete Frames.	23	Sup.	1966	202
*	1242	#	I. Moritaka, et al.	Vibrational Characteristic of Tower Building.	23	Sup.	1966	261
*	1243	#	K. Minami, et al.	Large Plastic Deformation of a Structure Due to Impact - An Experimental Study on a Portal Frame Subjected to Impulsive Loading, Report, No. 1.	23	Sup.	1966	309
*	1244	#	I. Funahashi, et al.	Research on Damping of a Structure - Experimental Study on Damping of Aseismic Elements, 1.	23	Sup.	1966	313
*	1245	#	K. Saito, et al.	Research on Damping of a Structure - Experimental Study on Damping of Aseismic Elements, 2.	23	Sup.	1966	314
*	1246	#	K. Kinoshita, et al.	Research on Damping of a Structure - Experimental Study on Damping of Aseismic Elements, 3.	23	Sup.	1966	315
*	1247	#	R. Tamura, et al.	Vibration Tests on a Large Model of the Steel Frame with Precast Concrete Panel.	23	Sup.	1966	316
*	1248		Y. Ohsaki	The Use of Jet Reaction for Dynamic Test of Building.	23	142	1967	9
*	1249	#	M. Hara, et al.	Vibrational Characteristics of the Tall Building (Model Experiment No. 4) - Damping of Building Vibration with the Rotation of Basement.	23	Sup.	1967	192
*	1250		O. Isobata	Free Vibration of Plate Stiffened by Ribs.	23	Sup.	1967	199
*	1251	#	Y. Sato, et al.	Experimental Study on a Frame of the Former Osaka Central Telegraph Office Building - Part 2. Vibration.	23	Sup.	1967	209
*	1252	#	S. Kazama, et al.	Vibration Test of Karagasaki-Telephone Office Building.	23	Sup.	1967	210
*	1253	#	T. Ohta, et al.	The Dynamic Test of a Seven-story Prefabricated Apartment Building.	23	Sup.	1967	212

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1254	# J. Yoshihara, et al.	The Vibration Test of the Four-Story Prefabricated Apartment Building.	23	Sup.	1967	214
* 1255	# Y. Higashi, et al.	Vibration and Failure Tests of Old Tokyo Kaijo Building - No. 6. Full Scale Loading Tests on Reinforced Concrete Slab-Beam Constructions with Beams.	23	Sup.	1967	370
* 1256	# Y. Ohsawa, et al.	Vibration and Static Loading Test of Hachinohe Technical College - No. 1.	23	168	1970	23
* 1257	M. Murakami, et al.	Vibration and Static Loading Tests of Hachinohe Technical College - No. 3. Vibration Test.	23	170	1970	27
1258	A. Iguchi	Vibrational Resistibility of the Material	24	125	1897	146
* 1259	T. Saita	On the Relation between the Vibration and the Reconstruction of the Marunouchi Building.	24	498	1927	965
* 1260	T. Taniguchi	On Experiment for Vibration of a Reinforced Concrete Frame.	24	506	1928	151
* 1261	K. Muto	On the Vibration of Reinforced Concrete Structures.	24	552	1931	1961
* 1262	H. Yoshida	Influence of Lateral Deformation (Poisson's Ratio) upon the Velocity of Propagation of Longitudinal Elastic Waves in Rods.	24	552	1931	2061
* 1263	R. Oka	On the Wooden - Structure.	24	569	1933	285
* 1264	R. Tanabashi	Experimental Investigation of the Decrease of Shear-Resistance by the Opening in Wall.	24	584	1934	320
* 1265	A. Kawada	Relation between Axial Load on Column and the Period of Vibration of Structure (Stability of Structure)	24	597	1935	367
* 1266	Waseda University	Vibration Test of the Reader's Digest Building in Tokyo.	24	789	1952	14
* 1267	A. Shibata	Rigidity and Decrement of the Reinforced Concrete Skeleton.	24	1025	1970	447

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1268	M. Watabe	Vibration Characteristics of Structures	24	1025	1970	451
* 1269	K. Nakagawa	Resistance against Earthquake Shock of the Curtain Wall.	25	160	1964	47
* 1270	K. Nakagawa	Earthquake Resistivity Test of Suspended Glass Screen.	25	174	1966	72
* 1271	# Y. Ohtsuki, et al.	Destructive Vibration of Structures Caused by Winds.	25	177	1966	55
* 1272	# E. Kimura, et al.	The Quake-Proof Test of Precast Concrete Curtain Walls.	25	202	1968	103
1273	M. Hatanaka	On the Vibration Behavior of a Building Due to the Blasting.	28	VII	1964	13
* 1274	I. Moritaka S. Matsuoka T. Takeda K. Yoshioka	Vibrational Characteristics of Tower Building. Part 1.	30	1	1967	7
* 1275	S. Watanabe Y. Kida M. Higuchi	The Vibrational Analysis of a Steel Structure.	30	1	1967	63
* 1276	I. Moritaka T. Takeda	Vibrational Characteristics of Tower Building. Part 2. Artificial Earthquake Response.	30	2	1968	7
* 1277	I. Moritaka T. Takeda	Experiment and Research for Impact Response of Model Structure. Part 2. One Span Steel-Frame with Single Story.	30	2	1968	13
* 1278	T. Shinogi I. Moritaka K. Yoshioka J. Yoshihara Y. Omote	Experimental Study on Ohbayashi-type Prefabricated Apartment.	30	3	1969	13
* 1279	K. Yoshioka T. Takeda I. Moritaka Y. Omote	Experiment and Research for Impact Response of Model Structure. Part 3. One Span Reinforced Concrete Frames with Single Story.	30	3	1969	29

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1280	S. Watanabe A. Teramura	Study on the Dynamic Behavior of Large Sized Structure. (1) An Approximate Method for Three Dimensional Analysis.	30	5	1971	7
*	1281	T. Takeda M.A. Sozen N.N. Nielsen	Reinforced Concrete Response to Simulated Earthquakes.	30	5	1971	19
	1282	T. Ohta Y. Hagiwara S. Kondo K. Endo S. Sekine	Vibration Test of the High-Rise Prefabricated Apartment Building.	31	16	1967	245
	1283	T. Ohta H. Sasao N. Adachi	Vibration Test of the Kasumigaseki Building. (1)	31	17	1968	291
	1284	T. Ohta Y. Hagiwara N. Adachi M. Yoshihara	Vibration Test of the Headquarters Building. Kajima Construction Corporation.	31	17	1968	325
	1285	N. Adachi S. Bessho M. Yoshiwara H. Uyeno	Vibration Behavior of a Fourteen Story Prefabricated Apartment Building.	31	18	1969	461
*	1286	Y. Konishi H. Yamahara	Problems of the Vibration Test of Building.	32	10	1967	69
*	1287	K. Ichinose T. Ito H. Watanabe	Reports of Examination Tests for the Prefabrication of the Multi-Storied Apartment House-Type Ks-1; Part 5, Forced Vibration Tests.	32	16	1970	80
*	1288	I. Funahashi K. Kinoshita K. Saito	Research on Damping of a Structure - Experimental Study on Damping of Aseismatic Elements.	33	2	1967	10
*	1289	K. Kinoshita	Research on Damping of a Structure.	33	3	1968	34

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1290	Y. Yamaguchi K. Uematsu K. Terai	Vibration Test Performed on the Research Building of the Central Research Institute of Electric Power Industry.	34		1970	123
* 1291	M. Takeuchi M. Hara S. Kazama	Vibrational Experiment of the Multi-Storied Frame Structures Accompanying Rocking Motion.	36	II	1966	233
* 1292	H. Umemura Y. Ohsawa M. Murakami T. Minami T. Kitagawa Y. Ishii N. Miyajima R. Tamura Y. Tanaka	Earthquake Resistance of Steel Frame Structure with Precast Concrete Panel.	36	II	1966	303
* 1293	N.N. Nielsen	Dynamic Tests of a Five Story Reinforced Concrete Building.	36	II	1966	309
* 1294	T. Shiga J. Ogawa	An Experimental Study on Dynamical Behavior of Reinforced Concrete Frames.	36	II	1966	321
* 1295	I. Funahashi K. Kinoshita	Research on Damping of Structure - Experimental Study on Damping of Aseismic Elements.	36	II	1966	345
* 1296	C. Katsuta N. Mashizu	Earthquake Isolation Method of Building by Highspeed Electrohydraulic Servomechanism.	36	II	1966	421
* 1297	K. Muto Y. Ishii T. Ohta N. Adachi	A New Method for Measurement of Vibration Characteristics of Structures Using Correlation Technique.	36	III	1970	541
* 1298	T. Shiga A. Shibata J. Shibuya	Experimental Study on Dynamic Properties of Reinforced Concrete Frames.	36	III	1970	571
* 1299	Y. Omote T. Takeda I. Moritaka K. Yoshoka	Experiment and Research on the Response of the Model Structure under Impact Loading. Part 1. Reinforced Concrete Frames.	36	III	1970	579

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1300	K. Yoshioka H. Okada I. Moritaka Y. Omote	Experiment and Research on the Response of Model Structure Under Impact Loading. Part 2. Steel Frames.	36	III	1970	587
*	1301	V.V. Bertero E.P. Popov H. Krawinkler	Half-Scale Tests of Subassemblages of Multi-story Unbraced Steel Frames under Cyclic Loading.	36	III	1970	659
*	1302	K. Kaneta K. Takeguchi I. Kohzu	On the Strength and Ductility of Welded Joints Subjected to Low Cycle Elasto-Plastic Deformations	36	III	1970	667
*	1303	K. Kawasumi K. Kanai	Small Amplitude Building Vibrations.	37	I	1956	7_I-1
*	1304	T. Hisada K. Nakagawa	Vibration Tests of Building Structures.	37	I	1956	7_{II}-1
*	1305	J.A. Blume	Vibration Periods of a 15-story Building.	37	I	1956	11-1
*	1306	G. Oberti E. Lauletta	Dynamic Tests on Models of Structures.	37	II	1960	947
*	1307	M. Takeuchi K. Nakagawa	Vibrational Characteristics of Buildings.	37	II	1960	961
*	1308	T. Taniguchi	Seismic Wall Effect in Framed Structure in Relation to the Period of Tall Buildings.	37	II	1960	1013
*	1309	J.A. Blume R.W. Binder	Periods of a Modern Multi-Story Office Building During Construction.	37	II	1960	1195
*	1310	K. Muto H. Umemura Y. Sonobe	Study of the Overturning Vibration of Slender Structures.	37	II	1960	1239
*	1311	H. Ishizaki N. Hatakeyama	Experimental and Numerical Studies on Vibrations of Buildings.	37	II	1960	1263
*	1312	J.A. Blume J.F. Meehan	A Structural-Dynamic Research Program on Actual School Buildings.	37	II	1960	1297

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1313	S. Ban H. Muguruma	Behavior of Plain Concrete under Dynamic Loading with Straining Rate Comparable to Earthquake Loading.	37	II	1960	1979
*	1314	M. Ihara C. Ueda	Horizontal Loading and Vibration Test on 2-storied Reinforced Concrete Structures.	37	III	1965	II-220
*	1315	C. Katsuta N. Mashizu	Earthquake Isolation Method of Structure by a High Speed Electro-hydraulic Servo-mechanism.	37	III	1965	II-276
*	1316	H. Kawasumi E. Shima	Some Applications of a Correlator to Engineering Problems	37	III	1965	II-298
*	1317	E. Del Valle J. Prince	Analytical and Experimental Studies of Vibration in Two Buildings.	37	III	1965	II-648
*	1318	S. Watanabe Y. Kida M. Higuchi	The Vibrational Analysis of a Steel Structure. The Vibrational Test of Ohbayashi-Gumi Building.	37	III	1965	II-695
*	1319	I.L. Korchynski V.A. Bikhovsky	Seismic Resistivity of Extended Structures.	37	III	1965	II-797
*	1320	J.G. Bouwkamp	Research on the Structural Damping of Steel Trussed and Framed Multi-story Building.	37	III	1965	IV-112
*	1321	Y. Guyon	Energy Absorption by Prestressed Concrete Beams.	37	III	1965	IV-216
*	1322	C. Ueda	Study on the Large Scale Displacement Vibration Test for the 1/25 Scale Model of the 17-storied Building J.N.R.	37	IV	1969	B1-17
*	1323	The Group for Dynamic Tests of High-rised Buildings.	Summarized Report on Dynamic Tests of High-rised Buildings and Cooperative Plan for Large Scale Vibration Tests in Japan.	37	IV	1969	B1-111
*	1324	D.V. Mallick	Resonance Testing of Multistory Infilled Frames.	37	IV	1969	B1-135
*	1325	H. Sandi G. Serbanescu	Experimental Results on the Dynamic Deformation of Multi-Story Buildings.	37	IV	1969	B1-150

	No.	Author	Title	Source	or Vol.	Date	Page
*	1326	S.V. Polyakov B.E. Denisov T. Zh. Zhunusov V.I. Konovodchenko A.V. Cherkashin	Investigation into Earthquake Resistance of Large-Panel Buildings.	37	IV	1969	B1-165
*	1327	R. Tamura M. Murakami Y. Ohsawa N. Miyajima Y. Tanaka	A Vibration Test of a Large Model Steel Frame with Precast Concrete Panel Untill Failure.	37	IV	1969	B2-15
*	1328	S. Watanabe S. Shimaguchi	On the Aseismicity of Precast Concrete Curtain Wall.	37	IV	1969	B2-47
*	1329	D. Rea R.W. Clough J.G. Bouwkamp U. Vogel	Damping Capacity of a Model Steel Structure.	37	IV	1969	B2-63
*	1330	E.P. Popov R.B. Pinkney	Reliability of Steel Beam-to-Column Connections under Cyclic Loading.	37	IV	1969	B3-15
*	1331	T. Kobori R. Minai Y. Inoue Y. Takeuchi T. Kamada	Measurement of Seismic Response of RC Structure and Its Ambient Ground (5).	38	V	1968	159
	1332	M. Hakuno M. Shiôawara	Preliminary Experiment on Dynamic Failure of Beams.	38	V	1968	163
	1333	T. Kobori R. Minai T. Kamada	Vibration Characteristics of a Full Scale Experimental Steel Frame Model.	38	VIII	1971	161
	1334	I. Toriumi Y. Takeuchi	Dynamic Characteristics of an Existing Chimney.	38	VIII	1971	165

No.	Author	Title	Source	No. or Vol.	Date	Page
D - 1 - 3 Observation on the Vibration of Buildings						
* 1335	F. Ohmori	Earthquake Measurement in a Brick Building.	2	4	1900	7
* 1336	F. Ohmori	Earthquake Measurement in a Brick Building. 3rd Paper. (With Plates IX-XII.)	2	20	1905	73
* 1337	M. Ishimoto R. Takahasi	Mesures des Mouvements d'un Batiment Dans Des Conditions Tranquilles.	5	7	1929	175
* 1338	T. Saita M. Suzuki	Vibration of a Tall Building Caused by Earthquake Shocks.	5	14	1936	104
* 1339	C. Tsuboi S. Miyamura	Direkte Messungen der Verbiegung eines Holzernen Grebaudes beim Beben.	5	20	1942	291
* 1340	S. Miyamura	Verbiegung enies Holzernen Gebaudes beim Erdbeben.	5	21	1943	216
* 1341	R. Ikegami	On the Vibrations of a Building caused by Microseisms.	5	27	1949	81
* 1342	K. Kanai T. Suzuki	Experimental Study of Vibrations of Structures Caused by After-shocks of Imaichi Earthquake of Dec. 26, 1949.	5	28	1950	465
* 1343	K. Kanai T. Suzuki	Relation between the Property of Building Vibration and the Nature of Ground. (Observation of Earthquake Motion at Actual Buildings.)	5	31	1953	305
* 1344	G. Nishimura M. Suzuki	Horizontal Deformations of a Japanese Two-Storied Frame House: (1) Vibration Due to an Arbitrary Shock, (2) Vibration Caused by a Rotary with Unbalanced Mass, (3) Vibration Due to Natural Wind, and (4) Deformation Due to the Sun's Radiation Heat.	5	32	1954	113
* 1345	G. Nishimura M. Suzuki	Anemometer of Inverted Pendulum Type and Wind Construction Studied with It.	5	32	1954	313
* 1346	K. Kanai T. Suzuki	Relation between the Property of Building Vibration and the Nature of Ground. (Observation of Earthquake Motion at Actual Building) II.	5	33	1955	109
* 1347	K. Kanai T. Suzuki S. Yoshizawa	Relation between the Property of Building Vibration and the Nature of the Ground. (Observation of Earthquake Motion at Actual Buildings.) III.	5	34	1956	61

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1348	K. Kanai T. Tanaka T. Suzuki	Rocking and Elastic Vibrations of Actual Building. II. (Observation of Earthquake Motion.)	5	36	1958	201
*	1349	M. Suzuki	Aseismatic Properties of a Wooden House. Part 2. (Observation of Earthquakes)	5	36	1958	235
*	1350	T. Tanaka	An Instrument for Brief Measurement of the Natural Period of a Building.	5	40	1962	325
*	1351	K. Kanai S. Yoshizawa	Some New Problems of Seismic Vibrations of a Structure. Part 1.	5	41	1963	825
*	1352	Y. Ohsawa T. Tanaka M. Murakami Y. Hosoda	Earthquake Strain Measurements in the ERI Main Building. Part 1.	5	44	1966	697
*	1353	T. Tanaka S. Yoshizawa Y. Ohsawa T. Morishita	Period and Damping of Vibration in Actual Buildings during Earthquakes.	5	47	1969	1073
*	1354	T. Kobori R. Minai Y. Inoue Y. Takeuchi T. Kamada	Observations of the Matsushiro Earhtquakes - On the Response Characteristics of a Building Structure and Neighbouring Ground. (First Report).	9	10-A	1967	221
*	1355	T. Kobori R. Minai Y. Inoue Y. Takeuchi T. Kamada	Observations of the Matsushiro Earthquakes - On the Response Characteristics of a Building Structure and Neighbouring Ground. (2nd Report).	9	11-A	1968	405
	1356	T. Saita	Study on Vibrations of Wooden Houses.	20	1	1937	60
	1357	K. Kanai T. Tanaka T. Suzuki	Vibration Tests of Identically Designed Buildings Built on Different Grounds: Part 2, the Result of Observation on Seismic Ground Motions and Natural Tremors.	22	24	1953	187

	No.		Author	Title	Source	No. or Vol.	Date	Page
*	1358		K. Kanai T. Tanaka	Simultaneous Measurements of Vibrations of Buildings at Their Many Places.	23	60	1958	285
*	1359		T. Hisada K. Nakagawa M. Izumi	Comparison of Measured Response of a Building to Micro Tremor with the Response of Its Substitutional Mass, Spring and Damper System Calculated by an Electronic Computer.	23	76	1962	89
*	1360		I. Toriumi	On the Natural Frequency of the Same Type Housing Evaluated by Mass Observation.	23	116	1965	21
*	1361		I. Toriumi	Mass Observation on Natural Frequency of the Same Type Houses.	23	Sup.	1965	149
*	1362	#	T. Tsunoda,et al.	The Vibration Test of Multi-Story Building of Yokohama Dream-land High-Tower Hotel.	23	Sup.	1965	161
*	1363	#	Y. Kitagawa, et al.	A Study on the Soil-Building System by Simultaneous Observation of Earhtquake Motions (2) - In Case of the Main Building of the Earthquake Research Institute. (II).	23	Sup.	1966	136
*	1364		M. Murakami	The Vibration Behavior of the Structure and the Boundary Effects at the Foundation - No. 6. An Investigation of Strong Motion Seismograph Records.	23	Sup.	1966	142
*	1365	#	Y. Ohsawa, et al.	A Study on the Earhquake Strain Measurement of a Building.	23	Sup.	1966	163
*	1366	#	T. Tanaka,et al.	Observed Earthquake Response of a Tall Building.	23	Sup.	1966	166
*	1367	#	E. Kimura,et al.	Measurement of Earthquake Motion and Spectrum Analysis for Matsushiro Earthquake.	23	Sup.	1966	167
*	1368	#	Y. Kitakawa,et al.	A Study on the Soil-Building System by Simultaneous Observation of Earhtquake Motions (4) - A Comment on Properties of Structural Period.	23	Sup.	1967	170
*	1369	#	T. Tsunoda,et al.	Natural Vibration of Multi-Storied Building (Damping Factor).	23	Sup.	1967	173
*	1370	#	H. Sasao,et al.	Seismic Observation and Analysis of Surface-Layers and a Rigid Structure.	23	Sup.	1967	215

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1371	T. Saita	Observations for the Vibrations of a Building by Earthquakes.	2	482	1926	418
*	1372	S. Kawasima	Prevention of Small Vibration in Building.	2	620	1936	1375
*	1373	M. Murakami	Seismic Response Analysis of Structures.	2	1025	1970	455
	1374	T. Ohta H. Sasao N. Adachi A. Mimura	Study of Seismic Response of an Experimental Rigid Frame.	31	16	1967	211
	1375	K. Muto T. Ohta N. Adachi T. Tsugawa	Observation and Analysis of the Response of the Kasumigaseki Building to Earthquakes.	31	17	1968	287
*	1376	Y. Ohsawa M. Murakami	A Comparison of Analyzed and Recorded Accelerations in Some Buildings during Strong Earthquakes.	36	II	1966	197
*	1377	T. Kobori R. Minai Y. Inoue Y. Takeuchi T. Kamada	On Response Characteristics of a Two-Story, Reinforced Concrete Building to Matsushiro Earthquakes.	36	II	1966	297
*	1378	Y. Ohsawa Y. Kitagawa S. Kawamura	Analysis of Earthquake Motions Recorded in a Building-Subsoil System.	36	III	1970	121
*	1379	T. Tanaka S. Yoshizawa T. Morishita	Period and Damping in Actual Buildings during Earthquakes.	36	III	1970	341
*	1380	H. Kobayashi	Dynamic Properties of Building Decided by Measurement of Vibration during Earthquake.	37	II	1960	1121
*	1381	B.K. Karapetian	A Study of Vibrations of Structures in Nature.	37	III	1965	II-856
*	1382	K. Akino T. Ohta H. Yamahara	Seismic Observation of Rigid Structure on Various Soils and Its Review.	37	IV	1969	A2-38

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1383	Y. Ohsawa T. Tanaka M. Murakami Y. Kitagawa	Earthquake Measurements in and around a Reinforced Concrete Building.	37	IV	1969	B1-1
1384	T. Kobori R. Minai, Y. Inoue Y. Takeuchi T. Kamada	Measurement of the Response of an RC Structure and Surrounding Ground to Earthquakes (Part 3).	38	IV	1967	164
1385	T. Kobori R. Minai Y. Takeuchi T. Kamada	Measurement of the Response of an RC Structure and Surrounding Ground to Earthquakes (Part 4).	38	IV	1967	167
1386	H. Goto K. Toki H. Kameda T. Akiyoshi S. Yoshihara J. Konishi	On the Result of After-Shock Observation on 1968 Off-Tokachi Earthquake.	38	V	1968	147
1387	Y. Kitagawa Y. Ohsawa	Earthquake Damage and Earthquake Resistance of Wooden Buildings.	38	VI	1969	61
1388	T. Kobori R. Minai Y. Takeuchi	An Evaluation Method of Damping of Structures by Means of Tremor Measurement.	38	VII	1970	67
1389	T. Kobori R. Minai Y. Inoue T. Kamada	Detection of Vibration Characteristics of Structures.	38	VII	1970	73
D - 1 - 4 Vibration Hazard of Buildings						
* 1390	K. Kanai K. Nakagawa	Vibration Hazard and Its Elimination in a Certain Housing Complex.	23	63-1	1959	305
1391	Y. Ohtsuki	Vibration Hazard Caused by Emergency Generators and Preventive Measures.	24	802	1953	28

No.		Author	Title	Source	No. or Vol.	Date	Page
1392		K. Nakagawa	On the Vibration Hazard	24	811	1954	19
1393		K. Nakagawa	Hazard Due to Vibrations of Machines and Preventive Measures.	25	21	1953	33
* 1394	#	M. Yamada, et al.	Vibration and the Human Body.	25	212	1969	175
* 1395		S. Watanabe S. Shimaguchi	Study on Harmful Vibration on Construction.	30	5	1971	13
D - 1 - 5 Vibrations of Steel Towers, Water tanks, Chimneys, etc.							
1396		A. Tanakadate B. Mano	Report on Vibration Test on Chimneys.	1	21	1898	7
1397		F. Ohmori	Investigation of Failure of Brick Columns and Overturning of Column-like Structures.	1	28	1899	4
* 1398		F. Ohmori	Note on the Vibration of Chimneys. (With Plates (XII-XVI).	2	12	1903	29
* 1399		F. Ohmori	On the Vibration of Reinforced Concrete Chimneys.	3	9	1918	1
* 1400		F. Ohmori	Measurement of Vibration of the 660-Foot Wireless Telegraph Station Tower at Haranomachi.	3	9	1921	77
* 1401		F. Ohmori	Vibration of a 12-Story Brick Tower.	3	9	1921	100
* 1402		C. Derleth Jr.	Vibration of the Sather Tower, Calif., U.S.A.	3	9	1921	106
* 1403		F. Ohmori	Measurement of Vibration of Gojunotos or 5-Story Buddhist Stupas (Pagodas).	3	9	1921	110
* 1404		T. Fukutomi	On the Vibration of Buildings and Reinforced Concrete Chimneys Due to Earthquake Motion.	5	12	1934	492
* 1405		N. Nasu	Vibration of a Tank Tower.	5	29	1951	413
* 1406		H. Ishizaki S. Kawamura	On the Vibrations of Transmission Towers.	9	2	1958	11

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1407	H. Ishizaki S. Kawamura	Some Vibrational Problems on the Design of Tall Steel Stacks.	9	5-A	1961	129
*	1408	H. Ishizaki S. Kawamura	Some Problems on the Steel Towers under the Action of Wind.	9	6	1962	372
*	1409	A. Nakano	Vibration Analysis of Tower Structures.	11	16	1964	119
	1410	H. Honda H. Ito	Measurement of Steel Tower Vibrations.	12	10	1937-1940	327
	1411	S. Nasu M. Takeuchi	Measurement of Vibrations of the Nogoya Television Tower.	22	29	1954	121
*	1412	W. Tanahashi H. Ishizaki K. Kaneta K. Suzuki	Measurement of the Vibration Characteristics for Buildings in Himeji Castle.	23	54	1956	437
*	1413	Y. Sonobe	Study on Vibrational Control of Suspended Structures.	23	57-1	1957	309
*	1414	H. Ishizaki S. Kawamura H. Nakaji	On the Vibration of Steel Towers. (1).	23	57-1	1957	325
*	1415	K. Muto Y. Murata	Experimental Study on the Fundamental Vibration of Elevated Water Tanks.	23	60-1	1958	293
*	1416	H. Ishizaki S. Kawamura	On the Vibration of Steel Towers.	23	60-1	1958	297
*	1417	H. Ishizaki S. Kawamura	On the Vibrations of Transmission Towers.	23	63-1	1959	265
*	1418	K. Muto Y. Murata	Experimental Study on the Vibration of Elevated Water Tanks.	23	63-1	1959	269
*	1419	H. Kobayashi	Anti-Earthquake Problem of Reinforced Concrete Chimneys.	23	63-1	1959	273
*	1420	H. Ishizaki S. Kawamura	On the Wind-induced Vibrations of Steel Stacks.	23	66-1	1960	261

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1421	H. Ishizaki S. Kawamura	On the Vibration of Steel Stacks by the Wind.	23	69-1	1961	421
*	1422	K. Kuwano Y. Arita Y. Nakao	A Study on the Seismic Response of the Steel Stack.	23	103	1964	116
*	1423	# Y. Takemura, et al.	The Vibration Test of Kyoto-Tower Building.	23	Sup.	1965	119
*	1424	F. Ohmori	On the Oscillation of Goju-no-to.	24	415	1921	219
*	1425	F. Ohmori	Observation on Oscillation of the Tower of "Ryoun-Kaku", Asakusa, Tokyo.	24	417	1921	377
*	1426	K. Nakagawa	Design of a Cantilever Beam Section Under Minimizing the Square Sum of Natural Periods.	26	169	1969	15
	1427	F. Ohmori	Measurement of Vibrations of the Large Chimney at the Kuhara Refinery, Seki-Machi, Saga City.	27	3	1917	223
*	1428	I. Funabashi K. Kinoshita	The Vibrational Analysis of the Tower Building - The Vibration Test and Earthquake Response of San-ai Building.	33	1	1966	91
*	1429	N.N. Nielsen	Dynamic Responses of a 90 Ft. Steel Frame Tower.	37	IV	1969	B1-126

D - 2 Vibration Test of Civil Engineering Structure and Earthquake Observation

D - 2 - 1 Vibrations of Civil Engineering Structure, General

*	1430	H. Watanabe	Dynamic Characteristics of Elasto-Plastic Restoring Force of Mild Steel.	19	69069	1970	
*	1431	T. Hatano H. Watanabe	Dynamical Visco-Elastic Constants and Poisson's Ratio of Concrete.	19	69097	1970	
*	1432	M. Hakuno M. Shidawara	Dynamic "Force-Displacement" Relations of Cantilever Test Piece Subjected to Earthquake Type External Force.	26	162	1969	11
*	1433	M. Hakuno M. Shidawara T. Hara	Dynamic Destructive Test of a Cantilever Beam, Controlled by an Electronic Computer.	26	171	1969	1

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1434	T. Hatano H. Watanabe	Dynamical Visco-Elastic Constants and Poisson's Ratio of Concrete.	26	184	1970	105
* 1435	T. Hatano H. Watanabe	Fatigue Failure of Concrete Under Periodical Compressive Load.	26	185	1971	51
* 1436	K. Ozawa	Forced Vibration of Column.	27	19	1933	239
1437	T. Hatano	Deformation and Failure under Dynamic Compression Loading of Concrete to be used for Earthquake Resistant Design.	28	III	1959	65
1438	K. Kanai	On the Vibration of Structure Due to Earthquake Ground Motion.	28	VII	1964	9
1439	S. Okamoto S. Morichi	Application of Photo-Elasticity Method to Vibration Problems.	28	X	1969	27
1440	M. Hakuro M. Shidawara	Model Test on the Elasto-Plastic Response of Structures subject to Violent Earthquake.	28	X	1969	31
* 1441	K. Ishihara T. Miyamori	Vibration Behavior of a Saturated Sand Layer Bounded Underneath by an Inclined Firm Base.	36	II	1966	79
* 1442	K. Akai Y. Yamauchi M. Tokuda	Response Characteristics of Saturated Clay to Impact Loading.	36	II	1966	91
* 1443	J. Takenaka Y. Nishigaki	Mechanical Properties and Vibration of the Foundation Soils.	36	III	1970	293
* 1444	H. Watanabe	Dynamic Characteristics of Elasto-Plastic Restoring Force of Mild Steel.	36	III	1970	651
* 1445	M. Hakuno M. Shidawara	Dynamic Failure Tests of a Member by an Earthquake Type External Force.	36	III	1970	675
* 1446	A.Z. Kats	Measurements of Dynamic Strains in Grounds and Constructions.	37	II	1960	1375
* 1447	T. Hatano H. Tsutsumi	Dynamical Compressive Deformation and Failure of Concrete under Earthquake Load.	37	II	1960	1963

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1448	R.L. Kondner R.J. Krizek	Dynamic Response of Cohesive Soils for Earthquake Considerations.	37	III	1965	I-96
* 1449	S.G. Napetvaridze P.A. Gutidze	Use of Resonance Method in Mechanical Modelling of Seismic Effect on Structures.	37	IV	1969	B1-98
D - 2 - 2 Vibration of Dams						
* 1450	K. Kanai S. Yoshizawa	Some New Problems of Seismic Vibrations of a Structure. Part 2. (Case of a Dam).	5	42	1964	237
* 1451	M. Hatanaka	Fundamental Considerations on the Earthquake Resistant Properties of the Earth Dam.	8	5-11	1955	
* 1452	H. Ishizaki N. Hatakeyama	Considerations on the Vibrational Behaviors of Earth Dams.	8	11-52	1962	
* 1453	H. Ishizaki N. Hatakeyama	Considerations on the Vibration Characteristics of Earth Dams.	9	3	1959	127
* 1454	N. Hatakeyama	Dynamic Tests of Model Earth Dams.	9	6	1962	373
* 1455	M. Hatanaka	On the Earthquake Resistant Properties of Arch Dams.	10		1956	125
1456	S. Okamoto K. Kiyomiya T. Kambayashi	Vibration Measurement Data on the Levee.	11	8	1956	216
* 1457	#S. Okamoto, et al.	Observation of Vibration of Arch Dam.	11	11	1959	574
* 1458	#S. Okamoto, et al.	Observation of Vibration of Arch Dam (2nd Report).	11	13	1961	119
1459	M. Matsumura	Deformation of Levee Due to Earthquake Ground Motion.	16	28	1934	1
* 1460	T. Hatano H. Watanabe	Seismic Analysis of Earth Dams.	19	68050	1968	
1461	F. Kishinouye	Vibration Measurement of the Levee.	21	14	1942	299

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1462	S. Kotsubo	Model Experiment of Dynamic Water Pressures on Arch Dams.	26	46	1957	30
*	1463	Y. Yokoo H. Ishizaki N. Hatakeyama	Vibration Characteristics of Earth Dams.	26	49	1957	17
*	1464	Y. Niwa C. Mori	Studies on the Earthquake Resistant Properties of Earth and Rock-Fill Dams.	26	58	1958	86
*	1465	T. Hatano T. Takahashi H. Tsutsumi	Vibration Tests and their Studies on Tsukahara Gravity Dam.	26	59	1958	8
*	1466	S. Okamoto K. Kato M. Hakuno	A New Method of Dynamic Model Test of Arch Dam.	26	75	1961	47
*	1467	S. Okamoto K. Kato M. Hakuno Y. Miyakoshi	Observation of Earthquakes on an Arch Dam.	26	76	1961	1
*	1468	S. Okamoto M. Hakuno K. Kato	On the Vibration of an Arch Dam, Especially on the Vertical Extensional Vibration.	26	100	1963	24
*	1469	S. Okamoto M. Hakuno K. Kato M. Ohtawa	Observation of Earthquakes on an Arch Dam and Its Abutment.	26	112	1964	20
*	1470	T. Hatano	An Examination on the Resonance of Hydrodynamic Pressure during Earthquakes Due to Elasticity of Wave.	26	129	1966	1
*	1471	T. Hatano H. Watanabe	Seismic Analysis of Earth Dams.	26	164	1969	1
*	1472	S. Okamoto K. Kato K. Ono	Dynamic Model Test of Arch Dam Using Electromagnetic Exciting Method.	26	173	1970	1

No.	Author	Title	Source	No. or Vol.	Date	Page
*1473	T. Hatano	Vibration Tests of Gravity Dams with Agar-agar Models.	27	36-10	1951	1
*1474	T. Hatano	The Model Test of Dynamic-water-pressure on Dams during Earthquake.	27	36-11	1951	4
1475	M. Hatanaka	Seismic Design of Concrete Dam.	28	I	1957	43
1476	Y. Niwa C. Mori	Study on Dynamic Behavior of Earth and Rock Fill Dam.	28	I	1957	45
1477	K. Kotsubo	Effect of Damping Action of Dynamic Water Pressure on Earthquake Resistant Characteristics of Dams.	28	I	1957	49
1478	T. Hatano T. Takahashi H. Tsutsumi	On the Result of Vibration Test on the Tsukahara Dam	28	I	1957	51
1479	S. Okamoto K. Kato	On the Result of Measurement of Ground Motion at an Underground Power Plant.	28	I	1957	53
1480	K. Minami	On the Cross Section of Earth Dams Designed to be Earthquake Resistant.	28	II	1958	13
1481	K. Kotsubo	The Influence of Slopes of Both Banks of the Upstream on the Dynamic Water Pressure Acting on Arch Dams.	28	II	1958	17
1482	S. Okamoto K. Kubo, K. Kato	Vibration Measurement of an Arch Dam.	28	II	1957	19
1483	T. Hatano	Vibration Mechanism of Gravity-type Dams.	28	II	1958	21
1484	K. Kotsubo	Stress and Seismic Intensity Distribution in Arch Dams during Earthquake.	28	III	1959	59
1485	T. Takahashi	Vibration Behavior of the Kamishiba Arch Dam.	28	III	1959	61
1486	S. Okamoto K. Kato M. Hakuno T. Arakawa	Vibration of Arch Dams.	28	III	1959	63

No.	Author	Title	Source	No. or Vol.	Date	Page
1487	T. Takahashi H. Tsutsumi Y. Masuko	Vibration Behavior of Arch Dams.	28	IV	1960	23
1488	K. Baba	Vibration Analysis of an Arch Dam during the Flood (in the Case of Futatsuno Dam.)	28	V	1961	35
1489	M. Hatanaka	Vibration of a Gravity Dam Due to Natural Earthquakes (2nd Report).	28	V	1961	37
1490	I. Minami	Vibration Characteristics of Arch Dams Taking Plastic Deformation into Consideration.	28	V	1961	39
1491	K. Nakayama T. Yoshida K. Baba	Measurement of the Vibration of Dams of Various Types under Earthquake.	28	VI	1963	1
1492	S. Okamoto F. Kawakami M. Hakuno K. Kato	Behavior of Earth Dams during Earthquake.	28	VII	1964	15
1493	K. Kotsubo	Vibration of a Water-Intake Tower Adjacent to a Dam.	28	VII	1964	19
1494	S. Okamoto K. Kato F. Kawakami	Measurement of the Vibration of Earth Dams under Earthquake.	28	VIII	1965	27
1495	I. Minami	Vibration Behavior of Fill-Type Dam during Earthquake	28	VIII	1965	29
1496	K. Baba Y. Hasegawa	Vibration Model Test of Fill-Type Dam (on the Fundamental Vibration.)	28	VIII	1965	31
1497	T. Ubukata	Vibration of a Long Earth Levee Induced by the Exciter.	28	VIII	1965	33
1498	S. Okamoto J. Tamura K. Kato, K. Ono	Vibration Model Test of Fill-Type Dams.	28	X	1969	25
* 1499	K. Nakayama T. Yoshida K. Baba	Dynamic Model Test of the Futatsuno Arch Dam.	36	I	1962	263

	No.	Author	Title	Source	or Vol.	Date	Page
*	1500	H. Ishizaki N. Hatakeyama	Dynamic Tests of Model Earth Dams.	36	I	1962	269
*	1501	A. Asada F. Kawakami E. Yanagisawa	Earthquake Responses Observed at an Earth Dam and Their Analysis with the Idealized Mass System.	36	II	1966	357
*	1502	S. Okamoto C. Tamura K. Kato M. Ohtawa	Dynamic Behavior of Earth Dam during Earthquakes.	36	II	1966	363
*	1503	I. Minami	On the Characteristics of Vibrations of the Fill Type Dam in Earthquakes.	36	II	1966	367
*	1504	F. Kawakami A. Asada Y. Mori	Response Characteristics of Earth Dams during Earthquakes.	36	III	1970	453
*	1505	S. Okamoto C. Tamura K. Kato	Earthquake Response of Fill Type Dam.	36	III	1970	461
*	1506	A.K. Chopra	Earthquake Analysis of Concrete Gravity Dams.	36	III	1970	469
*	1507	C. Tamura S. Okamoto K. Kato	Model Tests on the Failure of the Rock-Fill Dam Due to Vibration.	36	III	1970	595
*	1508	S. Kotsubo	Dynamic Water Pressure on Dams during Earthquakes.	37	II	1960	799
*	1509	G. Oberti E. Lauletta	Dynamic Tests on Models of Structures.	37	II	1960	947
*	1510	N.N. Ambraseys	The Seismic Stability of Earth Dams.	37	II	1960	1345
*	1511	S. Okamoto T. Takahashi	On Behaviors of an Arch Dam during Earthquakes.	37	II	1960	1401
*	1512	J.M. Raphael	The Effect of Lateral Earthquake on a High Buttress Dam.	37	II	1960	1791

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1513	M. Hatanaka	Study on the Earthquake Resistant Design of Gravity Type Dams.	37	II	1960	2041
* 1514	J. Krishna S. Prakash	Earth Dams Subjected to Earthquakes.	37	III	1965	I-83
* 1515	S. Okamoto M. Hakuno K. Kato F. Kawakami	On the Dynamical Behavior of an Earth Dam during Earthquake.	37	III	1965	II-443
* 1516	T. Yoshida K. Baba	Dynamics Response of Dams.	37	III	1965	II-748
* 1517	S.V. Medvedev A.P. Sinitsym	Seismic Effects on Earth Fill Dams.	37	III	1965	IV-373
* 1518	A.K. Chopra M. Dibaj R.W. Clough J. Penzien H.B. Seed	Earthquake Analysis of Earth Dams.	37	IV	1969	A5-55
* 1519	Y. Kobayashi	Mechanism of Earthquake Damage to Embankments and Slopes.	37	IV	1969	A5-73
* 1520	J. Krishna S. Prakash S.K. Thakkar	A Study of Earth Dam Models under Shock Loading.	37	IV	1969	A5-89
* 1521	I. Minami	On a Vibration Characteristics of Fill Dams in Earthquakes.	37	IV	1969	A5-101
* 1522	T. Hatano H. Watanabe	Seismic Analysis of Earth Dams.	37	IV	1969	A5-117
* 1523	I.M. Lavrov G.A. Lyamzina S.V. Medvedev	Vibrations of Earth Dams during Earthquakes.	37	IV	1969	A5-149
* 1524	T. Takahashi	Vibration Studies of an Arch Dam.	37	IV	1969	B1-61
* 1525	S. Okamoto K. Kato	A Method of Dynamic Model Test of Arch Dams.	37	IV	1969	B1-87

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1526	R. Szilard	Estimating Natural Frequencies and Models of Arch Dams with the Theory of Plates on Elastic Foundation.	37	IV	1969	A3-141
*	1527	A.K. Chopra E.L. Wilson I. Farhoomand	Earthquake Analysis of Resevoir-Dam Systems.	37	IV	1969	B4-1
*	1528	H. Sandi	Water-Dam Seismic Interaction.	37	IV	1969	B4-51
	1529	A. Kato A. Takagi	Vibration Measurement of the Naruko Arch Dam during Earthquakes.	38	I	1964	131
	1530	F. Kawakami A. Asada E. Yanagisawa	Observation and Analysis of Tremor of Earth Dams.	38	II	1965	193
	1531	Y. Kawakami Y. Mori A. Asada	Vibration Behavior of Earth Dams during Earthquakes. (Continued)	38	VI	1969	51
		D - 2 - 3 Vibrations of Port and Harbor Facilities.					
*	1532	T. Saita H. Matsuo	Earthquake Vibrations on Quays and on Reclaimed Ground in the Harbor of Yokohama.	5	19	1941	206
*	1533	K. Akai	On the Stress Analysis and the Stability Computation of Earth Embankments.	8	6-17	1957	
*	1534	H. Goto K. Toki T. Oguni H. Okamura H. Tomioka	Studies on Aseismicity of Arch-Type Tide Gate.	9	11-A	1968	305
	1535	H. Matsuo M. Daimon	The Limit of Earthquake Resistant Capacity of Gravity-Type Quay Walls.	16	38	1937	57
*	1536	H. Arai T. Yokoi	On the Earthquake Resistance of Anchored Sheet-Pile Walls: 1st Report, Model Vibration Test of Anchored Sheet-Pile Walls in Dry Sand.	17	4-9	1965	1

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1537	H. Fukuuchi N. Miyajima I. Yamashita	Studies on the Vibration Characteristics of Fill-Type Embankments.	17	5-3	1966	1
	1538	T. Saita	Motion of the Reclaimed Land and Quay Wall in Yokohama Harbor due to Earthquakes.	20	2	1942	24
*	1539	M. Ichihara S. Niwa	Experimental Studies on Seismic Earth Pressure (Report No. 1.) : Earthquake Generator and Oscillating Soil Pressure Measuring Apparatus.	26	38	1956	43
*	1540	S. Niwa	Measurements of Lateral Earth Pressures on the Wall Swung by a Vibration Exciter on the Top of it. (Experimental Studies on Seismic Earth Pressures, Report No. 2.)	26	39	1956	58
*	1541	M. Hatanaka	A Few Considerations on the Earthquake Resistant Properties of the Harbor Pier. - On the Distribution of Seismic Intensity.	26	44	1957	38
*	1542	S. Okabe	Experimental Determination of Earth Pressure and of the Seismic Stability of Retaining Walls.	27	12	1926	123
*	1543	T. Simano	Protection of the Sea-Coast to the Wave Action.	27	20	1934	1619
*	1544	H. Matsuo	Experimental Study on the Distribution of Earth Pressure Acting on a Vertical Wall during Earthquakes.	27	27	1941	83
	1545	Y. Ishii S. Hayashi H. Arai	Study on the Stability of the Gravity Type Quay Wall during Earthquakes. (First Report)	28	I	1957	13
	1546	T. Tateishi	Horizontal Strength of the Cellular Type Pier at Port Shimizu.	28	I	1957	17
	1547	S. Hayashi N. Miyajima	On the Vibration Behavior of the 7th Groyne of the Kobe Harbor. (1st Report).	28	I	1957	19
	1548	H. Matsuo S. Ohara	Stability Analysis for the Quay Wall during Earthquakes.	28	II	1958	23

No.	Author	Title	Source	or Vol.	Date	Page
1549	S. Hayashi N. Miyazima	On the Vibration Behavior of the 7th Groyne of Kobe Harbor. (2nd Report)	28	II	1958	27
1550	S. Hayashi N. Miyajima	On the Vibration Behavior of the Pier Supported by Reinforced Concrete Piles.	28	II	1958	29
1551	Y. Ishii S. Hayashi H. Arai	Study on the Stability of the Gravity Type Quay Wall during Earthquakes (2nd Report).	28	II	1958	31
1552	Y. Ishii S. Hayashi H. Arai H. Tsuchida	On the Stability of the Gravity Type Quay Wall.	28	III	1959	17
1553	T. Tateishi S. Hayashi N. Miyajima N. Jimbo S. Kitajima	Vibration Test of the Cellular Type Quay Wall	28	III	1959	25
1554	S. Hayashi N. Miyajima	The Field Vibration Test of the Gravity Type Quay Wall.	28	III	1959	27
1555	H. Arai T. Yoshinaga	Model Test of Vibration of the Sheet Pile Wall.	28	VI	1963	7
1556	R. Yamamoto N. Miyajima I. Yamashita	Study on Vibration Behavior of the Pier Supported by Steel Piles.	28	VII	1964	27
1557	H. Arai T. Yokoi	Study on Earthquake Resistance of the Sheet Pile Wall.	28	VIII	1965	17
1558	R. Yamamoto S. Hayashi N. Miyazima I. Yamashita	Study on Earthquake Resistance of the Pier Supported by Steel Piles.	28	VIII	1965	19
1559	H. Tsuchida S. Noda	Vibration Test of Sand Levee.	28	X	1969	13

	No.	Author	Title	Source	No. or Vol.	Date	Page
	1560	I. Yamashita M. Arata	Vibration Behavior of the Pier Supported by Perpindicular Pile: Comparision of Behaviors when Excitation is Applied at the Pile Head and at the Ground.	28	X	1969	65
	1561	H. Tsutsumi	Vibration Test of the Welded Steel Cellular Type Temporary Revetment on the Sand Cushion. (1).	29	10-8	1962	19
	1562	H. Tsutsumi	Vibration Test of Temporary Revetment of the Welded Steel Cellular Type on the Sand Cushion (2).	29	10-9	1962	3
*	1563	H. Matsuo S. Ohara H. Matsuo	Aseismic Stability of Quay Walls.	36	I	1962	201
*	1564	H. Arai T. Yoshinaga	Experiments on Model Anchored Sheet Pile Walls in Vibration. (1st Report)	36	I	1962	207
*	1565	M. Hatanaka	Experimental Studies on the Earthquake Resistant Properties of the Prestressed Concrete Shell Type Breakwater.	36	I	1966	257
*	1566	M. Hatanaka S. Kittaka	Experimental Studies on the Earthquake Resistant Property of Steel Plate Cellular Type Quay Wall.	36	II	1966	351
*	1567	H. Tsuchida S. Noda E. Kurata	Studies on Dynamic Behavior of Embankments with Large Models.	36	III	1970	445
*	1568	H. Arai M. Iwabuchi S. Nakazawa	Vibration Characteristics of Anchored Sheet-Pile Walls.	36	III	1970	603
*	1569	Y. Kobayashi	Sliding of Embankment Slopes during Earthquakes under the Effect of Porewater Pressure Due to Vibration.	36	III	1970	763
*	1570	H. Matsuo S. Ohara	Lateral Earth Pressure and Stability of Quay Walls during Earthquakes.	37	II	1960	165
*	1571	Y. Ishii H. Arai H. Tsuchida	Lateral Earth Pressure in an Earthquake.	37	II	1960	211

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1572	V.A. Murphy	The Effect of Ground Characteristics on the Aseismic Design of Structures.	37	II	1960	231
*	1573	S. Niwa	An Experimental Study of Oscillating Earth Pressures Acting on a Quay Wall.	37	II	1960	281
*	1574	S. Hayashi N. Miyajima	Experimental Studies of the Vibration Characteristics Of Quay Walls.	37	II	1960	1383
*	1575	H. Matsuo S. Ohara	Dynamic Pore Water Pressure Acting on Quay Walls during Earthquakes.	37	III	1965	I-130
*	1576	J.I. Bustamante	Dynamic Behavior of Noncohesive Embankment Models.	37	III	1965	IV-596
*	1577	S. Prakash B.M. Basavanna	Earth Pressure Disbribution behind Retaining Wall during Earthquake.	37	IV	1969	A5-133
	1578	M. Hatanaka	On the Stability of the Levee of Cellular Type during Earthquakes.	38	I	1964	129

D - 2 - 4 Vibrations of Bridges

	1579	F. Ohmori	Field Measurement of Deflection and Vibration of Railway Bridges.	1	37	1901	1
	1580	F. Ohmori	Investigation of the Reflection and Vibration of Railway Bridges. (2nd Report)	1	45	1903	1
*	1581	F. Ohmori	On the Deflection and Vibration of Railway Bridges.	2	9	1902	1
*	1582	F. Ohmori	Note on the Vibration of Railway Bridge Piers. (With Plates XVII-XXII).	2	12	1903	39
*	1583	F. Ohmori	Vibrations of a Railway Bridge Pier.	3	1	1907	155
*	1584	F. Ohmori	The Deflection and Vibration of Railway Bridges. 2nd Paper.	3	1	1907	172
*	1585	F. Ohmori	Application of Seismographs to the Measurement of the Vibrations of Railway Bridge Piers. 3rd Paper.	3	4	1911	33

No.	Author	Title	Source	No. or Vol.	Date	Page
1586	K. Sezawa K. Kanai	Energy Dissipation in the Bridge Vibration, Part I.	5	15	1937	385
1587	K. Sezawa K. Kanai	Energy Dissipation in the Bridge Vibration, Part II.	5	15	1937	590
1588	H. Goto K. Toki Y. Yohoyama H. Kameda T. Akiyoshi M. Ishida	Observation of Seismic Vibration of Bridges and Ground Motions in the Region of the Matsushiro Earthquake Swarm.	9	10-A	1967	201
1589	S. Okamoto K. Kubo	The Result of Field Measurement of Damping Coefficients of Bridges.	11	9	1957	516
1590	Y. Inose K. Abe	Vibration Measurement of the Mannen Bridge.	15	79	1950	165
1591	Y. Inose T. Takada	Study on Earthquake Resistant Capacity of Bridge Piers.(1).	15	81	1951	1
1592	S. Tanifuji K. Abe	Study on the Vibration of Langer Bridges. (1).	15	83	1952	39
1593	K. Abe	Study on the Vibration of Langer Bridges. (2).	15	84	1952	26
* 1594	S. Yokota T. Takada K. Tezuka	An Investigation on Vibrational Behavior and Aseismicity of a Dywidag-type P.C. Bridge.	15	107	1960	7
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* 1596	E. Kuribayashi T. Iwasaki	Earthquake Resistant Design of Bridges (III). - Experimental Studies or Vibrational Damping of Bridges.	15	139	1971	63
* 1597	K. Aoki	Vibration Test of Highway Bridges.	16	10	1928	49
1598	C. Miura	Theory and Experiment of Vibration of Single Hinged Arch Structures.	16	21	1931	49

No.	Author	Title	Source	No. or Vol.	Date	Page
1599	E. Murakami	The Comparison of Theoretical Calculation with the Result of Experiment on the Vibrations of Two Hinged Bridges.	16	69	1943	49
* 1600	K. Yasunami	Strength Test of the New Kisogawa Bridge, Tokaido Main Line.	18	26	1958	
* 1601	Z. Kajita Y. Kobayashi J. Kawamata	On Estimation of Soundness of Bridge Piers by Vibration Characteristics.	18	390	1964	
* 1602	Y. Tsuboi H. Yashiro M. Hanai S. Okamoto	Research on Torsional Resistance of Reinforced Concrete Bridge Girder. (Earthquake Resistance of High-Way Bridge.)	23	66-1	1960	481
* 1603	A. Hirai	On the Stability of Suspension Bridges Against Tortional Vibrations. (II).	26	2	1947	48
1604	A. Hirai	On the Stability of Suspension Bridges Against Tortional Vibrations. (III).	26	2	1947	83
1605	A. Hirai	On the Stability of Suspension Bridges Against Tortional Vibrations. (IV).	26	3	1949	17
1606	T. Hayashi	Coupling Phenomenon between Vertical Vibrations and Tortional Vibrations of the Stiffening Girder of the Suspension Bridge.	26	3	1949	24
1607	S. Moriguchi	On the Natural Vibration of the Hangers of Bridges. Bridges.	26	3	1949	36
* 1608	M. Naruoka I. Hirai	On the Period of Free Transverse Vibration of Composite Grillage Beam Bridge	26	35	1956	25
* 1609	I. Konishi S. Komatsu	Three Dimensional Stress Analysis of Box Girder Bridge	26	43	1956	1
* 1610	M. Hirashima	Frequency Equation of Girders with Many Spans.	26	58	1958	102
* 1611	I. Konishi Y. Yamada M. Shinozuka T. Kobori	Stochastic Study on Coefficient of Impact in Design of Highway Bridge.	26	62	1959	1

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1612	M. Ito	The Lateral Motion of Suspension Bridges.	26	81	1962	10
*	1613	S. Goto H. Kameda	Studies on the Vibration Analysis of Single Pedestal-Type Bridge Piers and Their Earthquake Resistance.	26	109	1964	1
*	1614	H. Goto H. Kameda	On Earthquake Response of Bridge Piers on Pile Foundations.	26	131	1966	7
*	1615	R. Sato T. Kawasaki	Studies on the Analysis of Dyanmic Behaviors of the Bridge Substructure by Using the Analogue Computer.	26	141	1967	1
*	1616	S. Kotsubo T. Takanishi	Effect of Deformation of Foundation on the Aseismic Properties of Steel Pipe Bridge Pier.	26	148	1967	22
*	1617	R. Sato T. Kawasaki	Effects of Viscosity on the Vibration of Wells.	26	158	1968	17
*	1618	Y. Yamada H. Takemiya	Studies on the Responses of Multi-Degrees of Freedom Systems Subjected to Random Excitation with Applications to the Tower and Pier Systems of Long Span Suspension Bridges.	26	163	1969	17
*	1619	S. Komatsu H. Nakai	Fundamental Study on Forced Vibration of Curved Girder Bridges.	26	174	1970	41
*	1620	S. Matsuno	Influences of Damping Mechanisms of Bridge Structures on Dynamic Responses.	26	183	1970	15
*	1621	S. Aoyagi	On the Response of Long Span Suspension Bridges Subjected to Earthquake Different between Substructures.	26	190	1971	37
	1622	N. Monobe	The Vibration of the Suspension Bridge and Its Relationship with the Inpact Action.	27	7	1921	561
	1623	N. Monobe	The Vibration of the Bridge Girder and Its Relationship with the Impact Action.	27	10	1924	79
*	1624	T. Mogami	On the Vibration of Suspension Bridge.	27	20	1934	549
*	1625	T.Shingo	Report of an Inspection Tour of Germany on the Measurement of Stresses and Vibrations of Steel Bridges and on the X-ray Test of Welded Steel Bridges.	27	27	1941	451

	No.	Author	Title	Source	No. or Vol.	Date	Page
	1626	T. Shingo	Method of Measuring Bridge Motions.	27	27	1941	490
	1627	A. Hirai	On the Stability of the Suspension Bridge with respect to Tortional Vibrations.	27	28	1942	769
	1628	T. Hori	Investigation of the Integrity of Suspension Bridge Piles by Measuring the Reflection of Elastic Waves.	27	33-4	1948	1
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*	1630	G. Kubota	Report of Inspection About Vibration on the Piers of the Setagawa-Bridge.	27	36-2	1951	22
*	1631	K. Abe K. Tezuka	On the Forced Vibration of Truss of Parallel Chord Which has Equal Section by Taking the Deformation of Web Member into Consideration.	27	36-9	1951	5
*	1632	I. Konishi M. Hatanaka H. Goto	Vibration Measurements of the Setagawa Bridge Piers of the National Railway.	27	37-3	1952	10
*	1633	I. Konishi S. Komatsu	On the Vibration Characteristics of a Gerber Beam.	27	38-2	1953	16
*	1634	I. Konishi S. Komatsu	On the Vibration Characteristics of a Gerber Beam. (Supplement).	27	38-9	1953	27
*	1635	I. Konishi Y. Yamada	On the Vibration Damping of Existing Steel Highway Bridge.	27	38-10	1953	19
*	1636	H. Goto	Experimental Studies on the Distribution of the Foundation Coefficient in the Ground Around Bridge Piers.	27	39-6	1954	15
*	1637	I. Konishi Y. Yamada	Some Consideration on the Forced Vibration of Beam Bridge.	27	39-10	1954	60
*	1638	H. Goto	On the Foundation Coefficient and Its Vibration Effects to the Bridge Piers.	27	40-1	1955	12

No.	Author	Title	Source	No. or Vol.	Date	Page
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* 1640	K. Hashimoto	Study on Characteristics of Steel Bridge Vibration by the Mechanical Oscillator.	27	40-10	1955	13
* 1641	I. Konishi Y. Yamada M. Ohashi	On the Results of Measurements of Stress, Deflection and Vibration of the Saijo-Ohashi Bridge.	27	41-3	1956	28
1642	Y. Tahara M. Fukuoka	On the Result of the Measurement of the K-value of the Bridge Pier Foundation.	28	I	1957	37
1643	H. Goto	On the Coupled Oscillation of Upper and Lower Structures of the Bridge in the Horizontal Direction.	28	I	1957	39
1644	S. Okamoto K. Kubo	Vibration Test of Suspension Bridges.	28	I	1957	41
1645	S. Okamoto K. Kubo M. Hakuno	Investigation of Earthquake Resistant Capacity of Suspension Bridges.	28	II	1958	35
1646	S. Okamoto K. Kubo M. Hakuno	An Experimental Study on the Vibration of the Piers.	28	II	1958	37
1647	Y. Ohchi	The Vibration Behavior of the Bridge Piers.	28	II	1958	39
1648	T. Takada K. Tezuka	The Vibration Behavior of Prestressed Concrete Bridges of Dywidag Type.	28	III	1959	29
1649	H. Goto K. Kaneta	Fundamental Study of Earthquake Resistant Design of Bridge Piers.	28	III	1959	31
1650	Y. Tahara T. Takada M. Fukuoka	Some Experimental Studies on Earthquake Resistant Capacity of the Foundation of the Bridge on the Soft Ground.	28	III	1959	33
1651	K. Kubo	Earthquake Resistant Capacity of Suspension Bridges under the Earthquake Action in the Axial Direction.	28	III	1959	35

No.	Author	Title	Source	No. or Vol.	Date	Page
1652	I. Konishi Y. Yamada N. Shiraishi	Study on Earthquake Resistant Capacity of Long Span Suspension Bridges.	28	III	1959	37
1653	A. Hirai M. Ito N. Narita	On the Earthquake Resistant Capacity of Long Suspension Bridges.	28	III	1959	39
1654	I. Konishi	Study on the Earthquake Resistant Capacity of Long Suspension Bridges.	28	IV	1960	15
1655	Y. Uesaki	Structures made Earthquake Resistant by Using Dampers.	28	V	1961	21
1656	H. Goto T. Watanabe	On the Model Test of Earthquake Resistant Capacity of Single Pier Structures supported by Diagonally Driven Piles.	28	V	1961	29
1657	I. Konishi Y. Yamada	Study on Seismic Response of Long Suspension Bridges.	28	V	1961	33
1658	S. Ohchi	Calaculation of the Impact Coefficient for Railway Bridges.	28	VI	1963	33
1659	E. Kuribayashi N. Narita	Test of the Wakato Bridge under Dynamic Loading.	28	VI	1963	33
1660	H. Goto Y. Yamada T. Akiyoshi	Measurement of Microtremors of Several Bridges after the Niigata Earthquake.	28	VII	1964	5
1661	T. Takada E. Kuribayashi T. Iwasaki	Test of Earthquake Resistant Capacity of the Shin-Katsushika Bridge.	28	VII	1964	17
1662	H. Goto H. Kameda	On the Response of the Bridge Piers Constructed on the Deep Firm Ground to Random Earthquake Ground Motions.	28	VIII	1965	13
1663	T. Takada T. Kuribayashi T. Kunihiro J. Tamura	On the Vibration Behavior of the No. 4 Amakusa Bridge during the Horizontal Earthquake Acting in the Direction Perpendicular to the Bridge Axis.	28	VIII	1965	37

No.	Author(s)	Title	Source	No. or Vol.	Date	Page
1664	J. Kawamata	Wave Motion Phenomenon of the Girder Observed during the Vibration Test of a Bridge.	28	VIII	1965	39
1665	J. Seki	On the Seismic Load of the Urban Eleveated Highway Bridges.	28	VIII	1965	41
1666	E. Kuribayashi T. Iwasaki	Measurement of Motion of the Ochiai Bridge due to the Matsushiro Earthquake.	28	IX	1967	5
1667	K. Kotsubo T. Takanishi	Diagrams and Tables for Calculation of Seismic Response of Steel Pipe Bridge Piers taking the Ground Deformation into Consideration.	28	IX	1967	17
1668	M. Hatanaka	On the Vibration Behavior of Highway Bridges with Diagonal Piers of Steel Pipe.	28	IX	1967	47
1669	K. Kubo M. Sasado T. Muto	Dynamic Analysis of a Continuous Curved Bridge with Discontinuity in Girder Depth as one of the Supports.	28	IX	1967	51
1670	K. Kotsubo J. Harada	The Influence of the Phase Difference in the Seismic Waves on the Response of the Dywidag Type Bridge.	28	IX	1967	55
1671	K. Kotsubo J. Harada K. Torino	On the Propagation of Bending Vibration within a Girder Bridge during Earthquake.	28	X	1969	37
1672	E. Kuribayashi T. Iwasaki	Measurement and Analysis of the Seismic Response of Highway Bridges.	28	X	1969	41
1673	E. Kuribayashi K. Oyamada	The Seismic Response Analysis of Suspension Bridges Taking Simultaneously Upper and Lower Structures into Account.	28	X	1969	45
1674	K. Kubo T. Kuribayashi T. Muto	On the Vibration Test of Bridges Supported up High by Long Piers.	28	X	1969	49
1675	K. Kotsubo T. Takanishi	The Seismic Response Analysis of Bridge Piers of Steel Pipe Taking Non-linearity of the Ground Vibration into Consideration.	28	X	1969	57

No.	Author	
* 1687	E. Kuribayashi Y. Oyamada U. Iida	Ea Su
* 1688	S. Yamaguchi S. Kawamoto T. Fukuyama S. Sato N. Miyajima Y. Tawaraya T. Yamada	St Co
* 1689	Y. Tahara T. Takata M. Fukuoka	So of
* 1690	I. Konishi Y. Yamada	Ea
* 1691	K. Kubo	As Lo
* 1692	A. Hirai T. Okumura M. Ito N. Narita	La Fo
* 1693	H. Goto K. Kaneta	An Br
* 1694	H. Goto K. Toki	Vi Su
* 1695	S. Kotsubo	Se El
* 1696	G.N. Kartisivadze	Re
* 1697	Y. Ishii K. Fujita	Fi St De

No.	Author(s)	Title
1664	J. Kawamata	Wave Motion Phenomenon of the Girder Observed during the Vibration Test of a Bridge.
1665	J. Seki	On the Seismic Load of the Urban Eleveated Highwa Bridges.
1666	E. Kuribayashi T. Iwasaki	Measurement of Motion of the Ochiai Bridge due to the Matsushiro Earthquake.
1667	K. Kotsubo T. Takanishi	Diagrams and Tables for Calculation of Seismic Res of Steel Pipe Bridge Piers taking the Ground Defor into Consideration.
1668	M. Hatanaka	On the Vibration Behavior of Highway Bridges with Diagonal Piers of Steel Pipe.
1669	K. Kubo M. Sasado T. Muto	Dynamic Analysis of a Continuous Curved Bridge wit Discontinuity in Girder Depth as one of the Suppc
1670	K. Kotsubo J. Harada	The Influence of the Phase Difference in the Seism Waves on the Response of the Dywidag Type Bridge.
1671	K. Kotsubo J. Harada K. Torino	On the Propagation of Bending Vibration within a (Bridge during Earthquake.
1672	E. Kuribayashi T. Iwasaki	Measurement and Analysis of the Seismic Response (Highway Bridges.
1673	E. Kuribayashi K. Oyamada	The Seismic Response Analysis of Suspension Bridg Taking Simultaneously Upper and Lower Structures Account.
1674	K. Kubo T. Kuribayashi T. Muto	On the Vibration Test of Bridges Supported up High Long Piers.
1675	K. Kotsubo T. Takanishi	The Seismic Response Analysis of Bridge Piers of Pipe Taking Non-linearity of the Ground Vibration Consideration.

No.	Author	Title	Source	No. or Vol.	Date	Page
1676	K. Horii M. Kawahara	On the Vibration Behavior of the Structure Constructed on the Soft Ground.	28	X	1969	83
* 1677	K. Kubo	Damping and Vibrational Characteristics of Bridge Piers.	36	I	1962	135
* 1678	H. Goto T. Watabe	Studies on Earthquake Resistance of Single Pedestal-Type Bridge Piers Arranged under Elevated Highway.	36	I	1962	141
* 1679	E. Kuribayashi	On Elastic and Damping Characteristics in Vibration of Pile-Foundations in Bridges.	36	I	1962	225
* 1680	T. Takata N. Narita	A Dynamic Test on Ajigawa Bridge Pier.	36	I	1962	277
* 1681	I. Konishi Y. Yamada T. Takaku H. Ikumi T. Isa	Experimental Studies on Effects of Structural Damping and Foundation Conditions to Earthquake Response of Suspension Bridge Tower Pier Systems.	36	II	1966	285
* 1682	K. Otofuji K. Kubo S. Sasado T. Muto	The Vibration Characteristics and Response of High Pier Bridges Due to an Earthquake.	36	II	1966	291
* 1683	S. Kotsubo T. Takanishi	Seismic Response of Steel Pipe Bridge Pier in Non-Linear Foundation Layer.	36	III	1970	9
* 1684	M. Kurata H. Okamura H. Tada Y. Shindo	Three-Dimensional Vibrations of Tower and Multi-Column Pier Foundations.	36	III	1970	397
* 1685	S. Kotsubo K. Harada J. Uno	Transient Earthquake Response of Long Span Bridges.	36	III	1970	421
* 1686	A. Sakurai T. Takahashi C. Kurihara H. Yajima	A Proposal for Earthquake Response Analyses of Long Structures.	86	III	1970	429

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1698	K.S. Zavriev	Dynamics and Earthquake Resistance of Pre-stressed Reinforced Concrete Structure.	37	III	1965	IV-645
*	1699	E. Kuribayashi T. Iwasaki	Observed Earthquake Responses of Bridges.	37	IV	1969	B1-44
*	1700	Y. Ohchi	Response Analysis of Framed Structures.	37	IV	1969	A3-51
*	1701	S.S. Tezcan S. Cherry	Earthquake Analysis of Suspension Bridges.	37	IV	1969	A3-125
*	1702	I. Konishi Y. Yamada	Studies on the Earthquake Resistant Design of Suspension Bridge Tower and Pier Systems.	37	IV	1969	B4-107
	1703	H. Goto H. Kameda	On the Vibration and the Mean Square Response of the Bridge Piers with the Pile Foundation.	38	III	1966	164
	1704	H. Goto H. Kameda M. Ishida	On the Result of the Observation of Vibration of the Bridges in the Matsushima Swarm Earthquake Area.	38	III	1966	168
	1705	H. Goto	The Observation of Motion of the Ground and the Bridge due to Earthquake.	38	III	1966	225
	D - 2 - 5 Vibrations of Railways						
	1706	S. Tanabe T. Hibi	The Report on the Experimental Measurement of Vibrations of Rails.	1	55	1906	1
*	1707	Y. Sato S. Kobayashi M. Nagata	Stability of Track with Concrete Ties and Crushed Stone Ballast in Earthquake.	18	675	1969	
	1708	N. Okada	The Effect and Prevention of Vibration Mainly of Railway Related Structures.	26	3	1949	101
*	1709	K. Kubomura T. Muromachi Y. Kuroda H. Uesawa	A Comparative Experiment on Earthquake Resistance of Embankment by a Large Shaking Table.	27	56-12	1971	48

	No.	Author	Title	Source	No. or Vol.	Date	Page
	1710	Y. Sato S. Kobayashi	The Lateral Resistance of the Ballast during Earthquake - in Case of Wooden-Sleeper Track and in case of the Track with Special Cross-section Designed for Earthquake.	28	X	1969	17
	1711	T. Suzuki	Shear Failure of the Levee Due to the Resonance with the Ground Motion.	35	1	1952	28
*	1712	T. Fujiwara	On Incident Seismic Waves to the Subsoil of Railway Embankments in the "Tokachi-Oki Earthquake in 1968".	36	III	1970	239
	D - 2 - 6 Vibrations of Roads						
	1713	S. Miyazaki T. Okubo J. Seki T. Furuta H. Yazukuri	The Earthquake Observation of Structures of the Tokyo Metropolitan Expressway System.	28	VI	1963	37
	D - 2 - 7 Vibrations of Tunnels						
*	1714	S. Okamoto M. Hakuno K. Kato	On the Contribution to the Seismic Force Acting on a Tunnel Lining.	36	I	1962	231
	D - 2 - 8 Vibrations of Underground Facilities						
*	1715	S. Okamoto C. Tamura	Dynamic Model Tests on Pipe Lines in the Soft Layer.	11	19	1967	371
*	1716	A. Sakurai T. Takahashi H. Tsutsumi H. Yajima T. Noguchi T. Iwakata	Dynamic Stresses of Underground Pipe Lines During Earthquakes (A Study Based on the Observed Records in the Matsushiro Earthquakes.)	18	67058	1967	
*	1717	A. Sakurai T. Takahashi C. Kurihara H. Yajima	Dynamic Stresses of Underground Pipe Lines during Earthquakes. (2)	18	69087	1970	

No.	Author	Title	Source	No. or Vol.	Date	Page
*1718	S. Okamoto K. Kato M. Hakuno	On the Seismic Force Acting on Structures under the Ground.	26	92	1963	37
1719	T. Noguchi T. Iwakata T. Takahashi A. Sakurai	The Result of the Response Observation on Underground Steel Pipes for Electric Cables to the Matsushiro Earthquakes.	27	IX	1967	29
1720	A. Sakurai T. Takahashi	The Result of the Observation of Ground Deformation Due to the Matsushiro Earthquake and Estimation of Corresponding Deformation of the Underground Pipelines.	27	IX	1967	33
1721	I. Matsui T. Takahashi H. Matsuno Y. Hasegawa	The Result of Response Observation on Underground Concrete Pipes for Electrical Cables.	27	IX	1967	37
1722	S. Okamoto J. Tamura K. Kato S. Morichi	Dynamic Behavior of the Pipelines in the Soft Ground.	27	IX	1967	45
*1723	A. Sakurai T. Takahashi	Dynamic Stresses of Underground Pipe Lines during Earthquakes.	37	IV	1969	B4-81
1724	M. Hakuno Y. Nojiri	Vibration Test of Underground Walls Caused by Ground Motion Due to Blasting.	27	IX	1967	41
D - 2 - 9 Vibrations of Under-Water Structures						
1725	A. Sakurai	Vibration of Under-Water Structures(Study on Seismic Response)	19	65051	1965	
1726	H. Goto K. Toki Y. Yokoyama	Study on Damping Behavior of Under-Water Bridge Piers.	28	VI	1963	17
1727	K. Kotsubo	Seismic Forces Acting on Under-Water Structures.	36	VI	1963	19

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	1728	H. Goto K. Toki	Fundamental Studies on Vibration Characteristics and Earthquake Resistance of Under-Water Structures.	36	I	1962	105
*	1729	K. Muto K. Uchida T. Tsugawa	The Earthquake Response Analysis of Underwater Tunnels.	36	III	1970	437
*	1730	R.W. Clough	Effects of Earthquakes on Under-water Structures.	37	II	1960	815
*	1731	M. Hatanaka	An Experimental Study on the Earthquake Resistant Property of Breakwaters of the Cylindrical Shell Type.	37	III	1965	I-31
		D - 3 Underground Energy Dissipation in Seismic Vibration of Structures. Interaction of Structures and Ground.					
*	1732	K. Sezawa K. Kanai	Decay in the Seismic Vibrations of a Simple or Tall Structure by Dissipation of their Energy into the Ground.	5	13	1935	681
*	1733	K. Sezawa K. Kanai	Energy Dissipation in Seismic Vibrations of a Framed Structure.	5	13	1935	698
*	1734	K. Sezawa K. Kanai	Energy Dissipation in Seismic Vibrations of Actual Buildings.	5	13	1935	925
*	1735	K. Sezawa K. Kanai	Energy Dissipation in Seismic Vibrations of Actual Buildings of Unlike Structure.	5	14	1936	119
*	1736	K. Sezawa K. Kanai	Energy Dissipation in Seismic Vibrations of a Six-Storied Structure. Coincidence of Resonance and Corresonance.	5	14	1936	134
*	1737	K. Sezawa K. Kanai	Improved Theory of Energy Dissipation in Seismic Vibrations of a Structure.	5	14	1936	164
*	1738	K. Sezawa K. Kanai	Energy Dissipation in Seismic Vibrations of a Seven-storied Structure. Nature of Corresonance.	5	14	1936	189
*	1739	K. Sezawa K. Kanai	Energy Dissipation in Seismic Vibrations of Actual Buildings Predicted by Means of an Improved Theory.	5	14	1936	377

	No.	Author	Title,	Source	No. or Vol.	Date	Page
*	1740	K. Sezawa K. Kanai	Energy Dissipation in Seismic Vibrations of an Eight-storied Structure.	5	14	1936	514
*	1741	K. Kanai	Model Experiments for Confirming the Dissipation Phenomena (Scattering) in the Seismic Vibration of a Structure.	5	17	1939	37
*	1742	Y. Sato R. Yamaguchi	Vibration of a Building Upon the Elastic Foundation.	5	35	1957	545
*	1743	Y. Sato R. Yamaguchi	Coupling Effect of Shear Vibrations of the Structure with Elastic Foundations, and the Maximum Response of Rocking Motion.	5	38	1960	369
*	1744	K. Kanai	Transmission Coefficient of Seismic Waves to Structures.	5	43	1965	195
*	1745	T. Kobori R. Minai Y. Inouye	On the Earthquake Response of Structural Systems Considering the Interaction Effects of the Ground.	8	20-2	1970	105
*	1746	R. Tanabashi T. Kobori K. Kaneta R. Minai Y. Inouye	Effects of Elasto-plastic Characteristics of Substructure on the Earthquake Response of Buildings.	9	5-A	1961	113
*	1747	T. Kobori	Ground Compliance of Rectangular Foundation.	9	6	1962	369
*	1748	T. Kobori	Vibration Response of Structure Resting on an Elastic Half-space.	9	6	1962	371
*	1749	T. Kobori R. Minai Y. Inouye	Ground Compliance of Rectangular Foundation and Its Simulation.	9	7	1963	164
*	1750	T. Kobori R. Minai Y. Inouye	Earthquake Response of the Structure Considering the Effect of Ground Compliance.	9	7	1963	179
*	1751	T. Kobori R. Minai Y. Inouye	Earthquake Response of the Structure Considering the Effect of Ground Compliance (2nd Report).	9	8	1964	193

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1752	T. Kobori R. Minai T. Suzuki	Dynamic Characteristics of Structures on an Elastic Ground.	9	9	1965	193
** 1753	T. Kobori R. Minai Y. Inouye T. Kamada	Earthquake Response of the Structure Considering the Effect of Ground Compliance. (3rd Report).	9	10-A	1967	261
* 1754	T. Kobori R. Minai T. Suzuki K. Kusakabe	Dynamical Ground Compliance of Rectangular Foundation on a Semi-Infinite Elastic Medium. (Part 1).	9	10-A	1967	283
* 1755	T. Kobori R. Minai T. Suzuki	Dynamical Ground Compliance of Rectangular Foundation on an Elastic Stratum over a Semi-Infinite Rigid Medium. (Part 2).	9	10-A	1967	315
* 1756	T. Kobori R. Minai T. Suzuki	Dynamical Ground Compliance of Rectangular Foundation on an Elastic Stratum over a Semi-Infinite Rigid Medium (Part 3).	9	11-A	1968	331
* 1757	T. Kobori R. Minai T. Suzuki K. Kusakabe	Dynamical Ground Compliance of Rectangular Foundation on a Semi-Infinite Visco-Elastic Medium.	9	11-A	1968	349
* 1758	H. Goto K. Toki S. Yoshihara	On the Vibrational Analysis of Foundation-Structure Systems by Multi-Degree-of-Freedom Model Representation.	9	12-A	1969	273
* 1759	T. Kobori R. Minai Y. Inouye T. Kamada	Vibrational Characteristics of Structure Considering the Effect of Ground Compliance.	9	13-A	1970	251
* 1760	T. Kobori R. Minai Y. Inouye T. Kamada	Earthquake Response of the Structure Considering the Effect of Ground Compliance.	9	13-A	1970	265

No.	Author	Title	Source	No. or Vol.	Date	Page
*1761	L.A. Rosenberg	On the Interaction between Ground and Structure During Earthquakes.	14	2	1965	29
*1762	M. Hayashi S. Hibino T. Kanagawa	Numerical Analysis of Dynamic Interaction between Underground Pipe and Ground during Earthquake.	19	69067	1970	
1763	K. Sezawa	Study on Earthquake Motion Energy Dissipation of Structure and Earthquake Motion Control Method.	20	1	1937	45
1764	T. Taniguchi	Study on Vibration Damping of Buildings (1st Report).	20	1	1937	97
*1765	Y. Sato R. Yamaguchi	Vibration of Buildings on the Ground.	21	II-9	1957	156
*1766	Y. Sato R. Yamaguchi	Coupling Effect of Shear Vibrations of the Structure with Elastic Foundations, and the Maximum Response of the Rocking Motion.	21	II-13	1960	127
1767	T. Suzuki	Coupling Effect of Ground Vibration on that of Structures.	22	2	1949	41
1768	T. Suzuki	On Virtual Mass of the Ground Accompanied by Vibrations of the Buildings.	22	12	1951	73
1769	N. Ando	Damping of the Foundation and Vibration of Buildings.	22	14	1951	191
1770	N. Ando	Damping of the Foundation and Vibration of Buildings (2nd Report).	22	16	1951	159
1771	T. Suzuki	On the Treatment of the Ground Conditions Affecting on Vibrations of Buildings.	22	16	1951	163
1772	I. Toriumi	Analytical Calculation of Horizontal Vibration of the Foundation for the Equipment System Constructed on the Elastic Ground.	22	24	1953	199
1773	I. Toriumi	On the Natural Vibration of Structure on the Semi-Infinite Elastic Ground. (On the Vibration Energy Dissipation into the Ground in Case of Small Amplitude.)	22	29	1954	213
*1774	R. Tanabasi	Vibration of Building Frame upon Elastic Ground.	23	5	1937	173

No.	Author	Title	Source	No. or Vol.	Date	Page
*1775	T. Taniguchi	Analytical Investigation of Damping Factors of Various Building Constructions. Part II. Effects of Foundation.	23	9	1938	110
*1776	S. Goto	Experimental Study on a Damping Effect of Soils for the Vibration of a Structure.	23	17	1940	356
*1777	T. Taniguchi T. Tazime	The Influence of the Ratio Between the Length Embeded in Sand and the Length Above the Soil on the Damping Factor of Circular Members.	23	21	1941	296
*1778	S. Ban	Stress, Settlement, and Bearing Power Distribution of Rigid Frames Supported on Elastic Ground.	23	25	1942	313
*1779	T. Taniguchi T. Tajime Y. Sugiyama	Influence of Depth Variations of the Substructure on the Damping Factors of Free Vibrations.	23	25	1942	320
*1780	H. Tajimi	The Relation between Magnitude of Building and Earthquake Force Applied to it. (Part 2).	23	50	1955	80
*1781	H. Tajimi Y. Tsuboi	Model Experiments on Dissipation Damping of Structure on Elastic Solid.	23	54	1956	369
*1782	T. Taniguchi H. Kobayashi M. Satani	Foundation Condition and Its Effect to the Amplitude of Building by Earthquake Shock.	23	54	1956	409
*1783	H. Tajimi	Theoretical Study of Dissipation Damping of Footing Dynamically Excited Soil.	23	55	1957	12
* 1784	T. Taniguchi H. Kobayashi	Foundation Condition and Its Effect to the Amplitude of Building by Earthquake Shock. (2nd Report)	23	57-1	1957	333
* 1785	R. Tanabashi T. Kobori R. Minai	General Discussion on the Unstationary Vibration of Building Structure Due to Plastic Deformation of Sub-structure. - Studies on the Nonlinear Vibration of Structure by Violent Earthquake. No. 1.	23	60-1	1958	253
*1786	R. Tanabashi T. Kobori R. Minai	Analytical Solution of the Unstationary Vibration of Building Structure Due to Plastic Deformation of Sub-structure. - Studies on the Nonlinear Vibration of Structure by Violent Earthquake. No. 2.	23	60-1	1958	257

No.	Author	Title	Source	No. or Vol.	Date	Page
*1787	R. Tanabashi T. Kobori R. Minai K. Mizuhata	Numerical Solution of the Unstationary Vibration of Building Structure Due to Plastic Deformation of Sub-structure.- Studies on the Nonlinear Vibration of Structure by Violent Earthquake.No. 3.	23	60-1	1958	261
*1788	K. Toriumi	On the Interferences in Vibrations.	23	60-1	1958	277
* 1789	R. Tanabashi T. Kobori R. Minai K. Mizuhata	Numerical Solution of the Unstationary Vibration of Building Structure Due to Plastic Deformation of Sub-structure. - Studies on the Nonlinear Vibration of Structure by Violent Earthquake. No. 4.	23	63-1	1959	285
*1790	R. Tanabashi T. Kobori R. Minai	General Discussion on the Unstationary Vibration of Building Structure Due to Plastic Deformation of Sub-structure. - Studies on the Nonlinear Vibration of Structure by Violent Earthquake. No. 5.	23	63-1	1959	289
*1791	R. Tanabashi T. Kobori R. Minai	Analytical Solution of the Unstationary Vibration of Building Structure Due to Plastic Deformation of Sub-structure. - Studies on the Nonlinear Vibration of Structure by Violent Earthquake. No. 6.	23	63	1959	293
*1792	K. Toriumi	Vibration in Long Structure.	23	66-1	1960	249
* 1793	T. Kobori R. Minai	Analysis of Earthquake Control Mechanism. - Study on Earthquake Control Mechanism Applicable to Structure.I.	23	66-1	1960	253
*1794	T. Kobori R. Minai	Criterion of Earthquke Control Mechanism. - Study on Earthquake Control Mechanism Applicable to Structure. II.	23	66-1	1960	257
*1795	T. Iwashita	One Method of Searching for Transient Vibration of One Mass System on the Elastic Foundation.		69-1	1961	389
*1796	T. Kobori R. Minai	Analysis of Earthquake Control Mechanism. - Elasto-Plastic System Having Many Degrees of Freedom. - Study on Earthquake Control Mechanism Applicable to Structure. III.	23	69-1	1961	405
*1797	T. Kobori R. Minai	Analysis of Earthquake Control Mechanism. - Elasto-Plastic System Having Many Degrees of Freedom. - Study on Earthquake Control Mechanism Applicable to Structure. IV.	23	69-1	1961	409

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1798	# R. Tanabashi T. Kobori K. Kaneta et al.	Effect of Foundation Compliance on Earthquake Response of Multi-story Building - Analog Computer Analysis of Nonlinear Transient Vibration of Structure. No. 6.	23	75	1962	7
* 1799	K. Nakagawa	Simultaneous Observation of the Base Motion of a Model Building and the Ground Motion in Small Earthquakes.	23	76	1962	88
* 1800	T. Kobori R. Minai T. Suzuki	Dynamical Response of Structure on an Elastic Ground.	23	89	1963	194
* 1801	G. Matsui R. Nagai	The Computation of Ground Compliance of Circular Foundations on an Infinite Half-Space.	23	89	1963	251
* 1802	T. Kobori R. Minai T. Suzuki	On Simulation of Coupled Ground-Mass System Based on Dynamical Ground Compliance.	23	103	1964	100
* 1803	T. Kobori R. Minai T. Suzuki	Complex Eigen Value Problem of Structural Model System Having the Approximate Transfer Function Represented by Elastic Subsoil Ground.	23	103	1964	103
* 1804	H. Yamahara	Mathematical Solution for Enforced Vibration about the System of Foundation on Infinite Elastic Ground.	23	103	1964	107
* 1805	H. Yamahara	The Vibrations of Foundation and Rigid Structure Placed on a Semi-Infinite Elastic Soil Ground. Part I.	23	115	1965	6
* 1806	H. Yamahara	The Natural Frequency of Rigid Structure Placed on a Semi-Infinite Elastic Soil.	23	Sup.	1965	122
* 1807	# T. Suzuki, et al.	Ground Compliance of Rectangular Foundation on an Elastic Ground. (Rocking).	23	Sup.	1965	123
* 1808	# K. Kusakabe, et al.	Dynamical Characteristics of Structures on an Elastic Ground.	23	Sup.	1965	124
* 1809	# T. Kamada , Et al.	Non-linear Earthquake Response of the Elasto-Plastic Structural System Considering the Effect of Dynamical Ground Compliance. No. 2.	23	Sup.	1965	125

No.	Author	Title	Source	No. or Vol.	Date	Page
*1810	Y. Inouye	Non-linear Earthquake Response of the Elasto-Plastic Structural System Considering the Effect of Dynamical Ground Compliance. No. 3.	23	Sup.	1965	126
*1811	H. Yamahara	The Vibrations of Foundation and Rigid Structure Placed on a Semi-Infinite Elastic Soil Ground. Part 2.	23	120	1966	35
*1812 #	K. Kusakabe, et al.	Ground Compliance of Rectangular Foundation on an Elastic Ground. - Rotation about a Vertical Axis.	23	Sup.	1966	134
*1813	H. Yamahara	Earthquake Response of Rigid Building Resting on a Semi-Infinite Elastic Soil.	23	Sup.	1967	168
*1814	M. Murakami	The Vibration Behavior of the Structure and the Boundary Effects at the Foundation. No. 9. Experimental Study on the Soil-Building System.	23	Sup.	1967	169
*1815	S. Yamamoto H. Yonetani	Rocking Vibration of Rigid Structure on Elastic System of Two Layers against Ground Motion.	23	Sup.	1967	171
* 1816	H. Tajimi	Earthquake Response of a Partially Embedded Rigid Structure.	23	Sup.	1967	172
*1817 #	H. Kushida, et al.	Research on Damping of a Structure - Experimental Study on Dissipated Damping.	23	Sup.	1967	175
*1818	T. Katayama	Damping Characteristics of Building Structures.	23	157	1969	11
*1819	H. Yamahara	Ground Motions during Earthquake and the In-put Loss of Earthquake to Building Response.	23	165	1969	61
*1820	H. Yamahara	Ground Motions during Earthquake and the In-put Loss of Earthquake to Building Response. (Part 2).	23	167	1970	25
*1821	S. Yamamoto T. Seki	Earthquake Response of Multi-story Building Supported on Piles.	23	177	1970	69
*1822	S. Yamamoto T. Seki	Earthquake Response of Multi-story Building Supported on Piles (Part 2).	23	178	1970	55
*1823	R. Oka	Experimental Research on Cushiony Action of Soft Earth.	24	558	1932	651

No.	Author	Title	Source	No. or Vol.	Date	Page
*1824	H. Tajimi	Interaction of the Ground and Building.	24	1025	1970	441
*1825	K. Akai M. Hori	Basic Study on the Dynamic Soil-Structure Interaction.	26	173	1970	61
1826	Y. Kobayashi	On the Vibrations in Single Degree of Freedom System Taking the Influence of the Ground into Consideration.	28	VIII	1965	3
1827	T. Katayama	The Influence of Interaction between Ground and Structure on the Seismic Record.	28	X	1969	69
1828	M. Hayashi T. Hibino	Study on the Numerical Analysis of the Interaction between Seismic Motion of the Ground and Vibration of Super Structures.	28	X	1969	73
1829	H. Goto K. Toki T. Akiyoshi	Transitional Response of the Foundation Structures Subjected to Random External Forces.	28	X	1969	87
1830	H. Yamahara	The Interpretation of the Ground in the Dynamic Analysis.	29	19-8	1971	7
*1831	K. Nakagawa S. Watanabe T. Tsunoda Y. Yasui A. Teramura K. Seo	Experimental Studies on the Vibration Distribution in Subsoil Around a Soil-Foundation Coupled System. Part 1.	30	5	1971	1
1832	H. Takase K. Uchida K. Masuda	Stress Analysis by Finite Element Method (around the Foundation).	31	16	1967	189
*1833	H. Yamahara	Earthquake Response of Rigid Building on an Elastic Soil.	32	10	1967	45
*1834	Y. Okuyama H. Yamahara	Earthquake Response of Structure Having Deep Foundation.	32	17	1971	21
*1835	T. Hashiba R.V. Whitman	Soil-Structure Interaction during Earthquakes.	33	3	1968	1

No.	Author	Title	Source	No. or Vol.	Date	Page
*1836	R. Tanabashi T. Kobori K. Kaneta R. Minai Y. Inouye	Effect of Foundation System on Elasto-Plastic Responses of Structures Excited by Earthquake Pulse.	36	I	1962	159
*1837	T. Kobori	Dynamical Response of Rectangular Foundation on a Elastic-Space.	36	I	1962	81
*1838	I. Toriumi	Vibrational Character of the Ground near the Foundation.	36	II	1966	49
*1839	Y. Ohtsuki H. Yamahara Y. Konishi	Vibration of Shear Beam on Elastic Soil.	36	II	1966	237
*1840	K. Nakagawa H. Murata H. Komuro T. Komura	Effect of Swaying and Rocking of Building Base on the Earthquake Response.	36	II	1966	243
*1841	T. Kobori R. Minai T. Suzuki	Dynamical Ground Compliance of Rectangular Foundation on an Elastic Stratum.	36	II	1966	261
*1842	T. Kobori R. Minai Y. Inouye T. Kamada	The Effect of Ground Compliance on Earthquake Response of Elasto-plastic Structure.	36	II	1966	267
*1843	T. Kobori R. Minai T. Suzuki K. Kusakabe	Dynamical Characteristics of Structure of Rectangular Foundation.	36	II	1966	273
*1844	K. Minami J. Sakurai T. Katayama	Some Effects of Substructure Proportions and Adjacent Soil Interaction on the Seismic Response of Buildings.	36	III	1970	1
*1845	S. Yamamoto T. Seki	Earthquake Response of Multi-Story Building Supported on Piles.	36	III	1970	17

No.	Author	Title	Source	No. or Vol.	Date	Page
*1846	J. Sakurai S. Aizawa	Some Effects to the Vibrational Characteristics of Buildings Caused by the Difference of Surface Layer Structure.	36	III	1970	25
*1847	K. Matsushita M. Izumi I. Sakamoto	Influence of an Upper-Structure upon Its Base Motion during an Earthquake.	36	III	1970	33
*1848	R. Minai Y. Inouye	On Earthquake Response of Ground-Structure Systems.	36	III	1970	41
*1849	R.A. Paramelee	The Influence of Foundation Parameters on the Seismic Response of Interaction Systems.	36	III	1970	49
*1850	H. Tsutsumi Y. Kamiya T. Kudo Y. Yoneda	A Proposal for Dynamic Analysis of Ground and Structure System, Based on Elastic Wave.	36	III	1970	57
*1851	K. Toki	Seismic Response of Structure in Heterogeneous Ground.	36	III	1970	73
*1852	E. Kuribayashi T. Iwasaki Y. Oyamada K. Tsuji	Ground-Stiffnesses to a Structure during Vibration.	36	III	1970	81
*1853	H. Sima	Effect of Surface Layering on Vibration of Building Subjected to Earthquakes.	36	III	1970	97
*1854	H. Yamahara	Ground Motions During Earthquakes and the Input Loss of Earthquake Power to an Excitation of Building.	36	III	1970	113
*1855	G. Matsui R. Nagai A. Teramura	The Analysis of Vibrational Characteristics of Structure on Elastic Soil.	36	III	1970	325
*1856	K. Akai M. Hori	Basic Study on the Dynamic Soil-Structure Interaction.	36	III	1970	485
*1857	T. Kobori T. Suzuki	Foundation Vibrations on a Viscoelastic Multi-Layered Medium.	36	III	1970	493

No.	Author	Title	Source	No. Or Vol.	Date	Page
*1858	T. Kobori S. Setogawa	Numerical Analysis on Foundation Vibration by Finite Element Technique.	36	III	1970	501
*1859	H. Goto	On a Model for Vibration Analysis of Ground Soil and Rigid Foundation Structure.	36	III	1970	509
*1860	J. Shibuya Y. Takeuchi T. Shiga	An Experimental Study on the Dynamic Properties of Foundation-Soil System.	36	III	1970	517
*1861	K. Nakagawa S. Watanabe T. Tsunoda Y. Yasui A. Teramura K. Seo	Experimental Studies on the Vibration Distribution in Subsoil Around a Soil Foundation Coupled System.	36	III	1970	533
*1862	G.V. Berg S.S. Thomaides	Energy Consumption by Structures in Strong-Motion Earthquakes.	37	II	1960	681
*1863	W.T. Thomson	A Survey of the Coupled Ground-Building Vibrations.	37	II	1960	833
*1864	T. Kobori R. Minai	Study on Unstationary Vibration of Building Structure with Plastic Deformation of Substructure.	37	II	1960	1085
*1865	H. Sandi	A Theoretical Investigation of the Interaction between Ground and Structure during Earthquakes.	37	II	1960	1327
*1866	I. Toriumi Y. Sato R. Yamaguchi	Vibrations in Foundation, Structure and Its Vicinity on the Elastic Ground.	37	II	1960	1413
*1867	J.F. Fleming F.N. Screwvala R.L. Kondner	Foundation Superstructure Interaction under Earthquake Motion.	37	III	1965	I-22
*1868	R.L. Kondner	Characteristic Periods of Cohesive Soil-Foundation Systems.	37	III	1965	I-75
*1869	A.K. Chopra P.R. Perumalswami	Dam-Foundation Interaction during Earthquakes.	37	IV	1969	A6-37

No.	Author	Title	Source	No. or Vol.	Date	Page
1870	H. Tajimi	Dynamic Analysis of a Structure Embedded in an Elastic Stratum.	37	IV	1969	A6-53
* 1871	J.K. Minami J. Sakurai	Some Effects of Substructure and Adjacent Soil Interaction on the Seismic Response of Buildings.	37	IV	1969	A6-71
* 1872	E.L. Wilson	A Method of Analysis for the Evaluation of Foundation-Structure Interaction.	37	IV	1969	A6-87
* 1873	H. Kishida K. Matsushita I. Sakamoto	Soil-Structure Interaction of the Elevated Tower and of Concrete Footings.	37	IV	1969	A6-101
* 1874	T. Kobori R. Minai Y. Inouye	On Earthquake Response of Elasto-Plastic Structure Considering Ground Characteristics.	37	IV	1969	A6-117
* 1875	R.V.Whitman	Equivalent Lumped System for Structure Founded upon Stratum of Soil.	37	IV	1969	A6-133
* 1876	J. Khanna	Elastic Soil-Structure Interaction.	37	IV	1969	A6-143
* 1877	W.T. Wheeler	Conventional Foundations and Their Earthquake Problems.	37	IV	1969	A6-153
1878	H. Tajimi	The Influence of the Surface Layer on the Seismic Response of the Rigid Structure with the Deep Foundation.	38	II	1965	197
1879	T. Kobori R. Minai Y. Inoue H. Takeuchi T. Kamada	Measurement of Seismic Responses of RC Structures and Surrounding Ground.(1).	38	III	1966	188
1880	T. Kobori R. Minai Y. Inoue H. Takeuchi T. Kamada	Measurement of Seismic Responses of RC Structures and Surrounding Ground. (2).	38	III	1966	192
1881	R. Minai	On the Modeling of Non-Linear Foundation Ground of the Structure.	38	VII	1970	69

No.	Author	Title	Source	No. or Vol.	Date	Page
		D - 4 Vibration Theory of Structures				
* 1882	K. Suyehiro	On the Damped Transversal Vibration of Prismatic Bars.	5	6	1929	63
*1883	K. Sezawa K. Kanai	Vibrations of a Single -story Framed Structure.	5	10	1932	767
*1884	K. Sezawa K. Kanai	Vibrations of a Two- or Three-storied Structure.	5	10	1932	903
*1885	N. Mononobe	Ultimate Strength of Building Structures against Earthquakes.	5	12	1934	35
*1886	K. Sezawa K. Kanai	Some New Problems of Free Vibrations of a Structure.	5	12	1934	804
*1887	K. Sezawa K. Kanai	Some New Problems of Forced Vibrations of a Structure.	5	12	1934	823
*1888	K. Sezawa	Vibrational Causes of the Overturning of Railway Carriages on the Setagawa Bridge in the Typhoon of Sept. 21, 1934.	5	13	1935	715
*1889	K. Sezawa K. Kanai	The Effect of Stiffness of Floors on the Horizontal Vibrations of a Framed Structure.	5	14	1936	367
*1890	T. Fuchida	An Experimental Method to Solve the Equation of Motion of the Seismograph.	5	14	1936	415
*1891	K. Sezawa K. Kanai	On the Seismic Vibrations of a Gozyunoto (Pagoda).	5	14	1936	525
*1892	K. Sezawa K. Kanai	A Method of Minimizing the Seismic Vibrations of a Structure.	5	15	1937	21
*1893	K. Sezawa K. Kanai	Further Studies on the Seismic Vibrations of a Gozyunoto (Pagoda).	5	15	1937	33
*1894	K. Sezawa K. Kanai	Studies on the Seismic Vibration of a Gozyunoto. III.	5	16	1938	30
*1895	K. Kanai	Aseismic Properties of a Daikoku-Basira (Principal Column) or Similar Column in a Japanese Style House.	5	16	1938	256

No.	Author	Title	Source	No. or Vol.	Date	Page
*1896	K. Kanai	Three-dimensional Vibrations of a Framed Structure. I.	5	16	1938	538
*1897	K. Sezawa K. Kanai	Theory of the Aseismic Properties of the Brace Struts (Sudikai) in a Japanese Style Building.(Preliminary Notes.)	5	16	1938	702
*1898	K. Iida	Forced Shearing Vibrations of a Structure. Part I.	5	17	1939	49
*1899	K. Kanai	Theory of the Aseismic Properties of the Brace Strut (Sudikai) in a Japanese Style Building. Part I.	5	17	1939	233
*1900	K. Kanai	Theory of the Aseismic Properties of the Brace Strut (Sudikai) in a Japanese Style Building. Part II.	5	17	1939	559
*1901	K. Kanai	Theory of the Aseismic Properties of the Brace Strut (Sudikai) in a Japanese Style Building. Part III. The Effect of Waves Scattering (Dissipation).	5	17	1939	569
*1902	K. Kanai	Theory of the Aseismic Properties of the Brace Strut (Sudikai) in a Japanese Style Building. Part IV. The Effect of Material Inner Damping.	5	17	1939	695
*1903	K. Kanai	Theory of the Aseismic Properties of the Brace Strut (Sudikai) in a Japanese Style Building. Part V. Model Experiment Confirmations.	5	17	1939	713
*1904	K. Kanai K. Sezawa	Effect of Distribution of Masses in a Rahmen Floor on Seismic Structural Vibration, and Model Experimental Confirmations of That Effect with a New Vibration Table.	5	18	1940	370
*1905	K. Kanai	The Seismic Vibration of a Saw-tooth Roof Structure.	5	19	1941	554
*1906	K. Kanai	Three-dimensional Vibration of a Framed Structure. II.	5	20	1942	347
*1907	K. Kanai	The Effect of the Tenons (Hozo) on the Vibrations in a Japanese Style Building.	5	21	1943	307
*1908	T. Matsuzawa	Uber die Schaden von Torii beim Erdbeben.	5	22	1944	89
*1909	K. Kanai	On the Damages to Buildings Subjected to Earthquakes.	5	25	1947	61

No.	Author	Title	Source	No. or Vol.	Date	Page
*1910	K. Kanai	A Method of Determining the Stiffness of Each Story of an n-storied Building.	5	28	1950	161
*1911	R. Takahasi	A Short Note on Kanai's Formula.	5	28	1950	165
*1912	K. Kanai	Destruction System of Building by Earthquake.	5	29	1951	393
*1913	K. Kanai	Examination of the Assumption of the Concentrated Mass in the Vibration of Framed Structure. (Rahmen).	5	31	1953	245
*1914	T. Hisada K. Nakagawa	Steady State Non-linear Vibration of Two-Story Buildings.	5	33	1955	689
*1915	R. Tanabashi T. Kobori K. Kaneta	Vibration Problems of Skyscraper Destructive Elements of Seismic Waves for Structures.	8	3-7	1954	
*1916	R. Tanabashi T. Kobori K. Kaneta	Nonlinear Torsional Vibration of Structures Due to an Earthquake.	8	11-56	1962	
*1917	T. Kobori R. Minai	Non-Stationary Response of the Linear System to Random Excitation.	8	16-2	1967	37
*1918	T. Kobori R. Minai	Response Spectra of Quasi-Stationary Random Excitations.	8	17-3	1968	45
*1919	T. Kobori R. Minai	One-Dimensional Wave-Transfer Functions of the Linear Visco-Elastic Multi-Layered Half-Space.	8	18-4	1969	27
*1920	K. Kaneta	A Method of Finding the Damping Capacity in a Simple Vibrating System from the Energy Point of View.	9	4	1960	81
*1921	T. Kobori R. Minai	Earthquake Response of Elasto-Plastic Multi-Story Building Structure.	9	7	1963	141
*1922	T. Kobori R. Minai T. Hisatoku Y. Inouye	Earthquake Response of a Certain Elasto-Plastic Structure.	9	8	1964	219

No.	Author	Title	Source	No. or Vol.	Date	Page
*1923	T. Kobori R. Minai Y. Takeuchi	Statistical Method of Determining Dynamic Characteristics of Multi-degree-of-freedom Systems.	9	9	1965	225
*1924	H. Goto H. Kameda	On the Probability Distribution of the Maximum Structural Response in Random Vibration.	9	11-A	1968	239
*1925	H. Goto H. Kameda	On the Probability Distribution of the Maximum Structural Response in Random Vibration - Transient Response to Stationary Input.	9	12-A	1969	289
*1926	H. Goto K. Toki T. Akiyoshi	Non-Stationary Response of Underground Structures Subjected to Random Excitations.	9	13-B	1970	579
*1927	T. Kobori	Quake Resistant and Nonlinear Problems of the Structural Vibrations to Violent Earthquakes.	10		1956	116
*1928	Y. Hayashi S. Okamoto	Response of a Structure Subjected to Two Inputs.	11	21	1969	96
*1929	N. Takahashi	Dynamic Analysis of Frame Structure.	11	21	1969	411
*1930	H. Shibata	Recent Topics on Matrix Methods for Vibration Analyses.	11	22	1970	20
*1931	N. Shimizu	Fluctuations of Response Spectra. - Part 4. - Theoretical Evaluations in Case That Responses and Earthquakes are Strongly Correlated.	11	22	1970	286
*1932	T. Hisada K. Nakagawa M. Izumi	Design of Tall Buildings for Controlled Story Drifts Against Earthquakes.	14	1	1964	55
*1933	J. Penzien	Applications of Random Vibration Theory in Earthquake Engineering.	14	2	1965	47
*1934	K. Nakagawa H. Murata C. Calero	Preliminary Study on Modal Analysis of Response of a Structure Subjected to Two Different Earthquake Motions at Its Two Supporting Points.	14	4	1967	127
1935	S. Yokota	A Method for Obtaining Natural Frequencies of a Girder of Non-uniform Cross-section Solving the Governing Differential Equation by means of power series expansion.	16	61	1941	1

No.	Author	Title	Source	No. or Vol.	Date	Page
1936	E. Murakami	The Method of Calculating Natural Frequencies of a Girder of Non-uniform Cross-section by Energy Method .	16	65	1942	1
1937	K. Ono	Theoretical Study of the Rigid Frames of the Irregular Shape.	20	1	1937	11
1938	K. Sezawa	Study on the Effect of the Diagonal Bracings on the Earthquake Resistant Capacity of Structure.	20	2	1942	43
1939	T. Suzuki	Vibrations of Heavy Structures.	22	1	1949	46
1940	T. Tajime	Analysis of Equations of Motion of Rigid Frame Structures Subjected to Ground Motions of Different Type.	22	1	1949	50
1941	T. Tajime	Free Vibration of Rigid Frame Structures in Which the Rigidity Changes Linearly.	22	2	1949	17
1942	T. Suzuki	On the Non-Stationary Vibrations of the Structure in the Dynamic Field.	22	4	1949	115
1943	H. Umemura T. Shiga	Three Dimensional Vibrations of Buildings.	2222	7	1950	111
1944	H. Ishizaki	On the Shear Vibration Accompanying Bending.	22	9	1950	93
1945	T. Suzuki	Study on Vibrations with Respect to Earthquake Resistant Design of Buildings. (Introductory Report).	22	9	1950	97
1946	T. Tajime	On the Transitional Vibrations of Buildings Due to Earthquakes. (2)	22	12	1951	65
1947	T. Tajime	Shear Vibrations in Mass Particle Systems and Elastic Systems Subjected to Ground Motion Analyzed by the Operator Method.	22	16	1951	85
1948	T. Kobori	Continuous Transitional Phenomena of Structures Due to Non-Stationary Vibration.	22	3	1952	231
1949	Y. Yokoo M. Hatanaka	On the Three Dimensional Shear Vibration of Buildings. (Theoretical Study.)	22	20	1952	73

No.	Author	Title	Source	No. or Vol.	Date	Page
1950	T. Tajime	Theoretical Study on Vibration of Buildings Due to Earthquakes. (2).	22	27	1954	127
1951	T. Tajime	Theoretical Study on Vibration of Buildings Due to Earthquakes. (3).	22	28-II	1954	2-18
*1952	K. Ono	The Vibrational Slope-Deflection Method.	23	I	1936	181
*1953	A. Mizuhara	On the Vibration of Many-Storied Frames Subjected to an Axial Load.	23	1	1936	191
*1954	A. Mizuhara	On the Vibration of Combined Structures Connected with Elastic Members.	23	3	1936	22
*1955	A. Mizuhara	On the Vibration of Combined Structures Connected with Elastic Members. (Continued).	23	5	1937	156
*1956	K. Ono	The Vibrational Slope-Deflection Method, and the Method Which Answers the Purpose of Practical Use.	23	5	1937	166
*1957	R. Tanabashi	Studies upon Vibration of Building Structure.	23	6	1937	1
*1958	A. Mizuhara	On the Special Cases of Forced Vibrations.	23	7	1937	33
*1959	A. Mizuhara	On the Calculation of the Natural Vibration Curves of a Multi-Story Rectangular Frame.	23	8	1938	34
*1960	K. Muto H. Ohba M. Nagasawa	On the Solution of Statically Indeterminate Structures by the Propagation and Reflection Method.	23	9	1938	61
*1961	K. Muto	Approximate Solution of Rectangular Frame Composed of Members with Infinitely Rigid Parts at the End with Horizontal Force.	23	9	1938	91
*1962	A. Mizuhara	On the Diagrams of Forced Vibrations with Damping.	23	10	1938	1
*1963	K. Muto	Elastic Vibration of Structures under the Action of Explosion Pressure.	23	17	1940	347
*1964	K. Muto M. Takahasi	Vibration of Buildings in Three Dimensions.	23	21	1941	234

No.	Author	Title	Source	No. or Vol.	Date	Page
*1965	K. Muto M. Takahasi	Vibration of One-Storied Building in Three Dimensions. (Part 1).	23	21	1941	238
*1966	K. Muto	Failure due to Impulses.	23	21	1941	246
*1967	K. Muto H. Umemura	Theoretical Investigation of Bomb-Proof Construction. (Part 1).	23	23	1941	56
*1968	K. Muto H. Umemura	Theoretical Investigation of Bomb-Proof Construction. (Part 2).	23	23	1941	66
*1969	K. Muto M. Takahasi	Vibration of One-Storied Building in Three Dimensions. (Part 2).	23	23	1941	71
*1970	K. Muto M. Takahasi	Vibration of One-Storied Building in Three Dimensions. (Part 3).	23	23	1941	75
*1971	K. Ono	Properties of Simultaneous Equations Derived from Generalized Slope-Deflection Method.	23	24	1942	53
*1972	K. Ono	Studies Relating to Compatibility Conditions of Rigid Frames.	23	24	1942	61
*1973	K. Ono	Solution of Building Frames Composed of Members Having Rigid Haunches at the Ends.	23	24	1942	71
*1974	K. Muto M. Takahasi	Vibration of One-Story Buildings in Three Dimensions, (Part 4).	23	24	1942	81
*1975	K. Muto M. Takahasi	Forced Vibrations of One-Story Buildings in Three Dimensions. (The Case of Rectangular Slabs.)	23	25	1942	333
*1976	K. Muto H. Asada	Vibration of One-Story Buildings of Special Plain Types in Three Dimensions. (Report 1).	23	25	1942	340
*1977	K. Muto H. Umemura Y. Sakai	Vibrations of Rigid Bodies, Supported by Elastic Media under the Action of Explosive Pressure.	23	25	1942	352
*1978	K. Muto H. Umemura	The Theory of Reinforced Concrete Members under Large Deformations. (Report 1).	23	26	1942	151

No.	Author	Title	Source	No. or Vol.	Date	Page
*1979	T. Tajime	The Influence of Damping Factor on the Amplitude of Vibration of Buildings in the Resonant State.	23	27	1942	138
*1980	S. Goto	The Vibrations of Cubically Framed Structures and the Damping Effects of Viscous Resistance.	23	29	1943	255
1981	T. Tajime	Some Problems of Vibration in Mass Particle Systems Analyzed by the Operator Method.	23	31	1944	132
1982	M. Goto	On the Filtered Wave in the Analysis of Structural Vibration.	23	33-1	1944	28
1983	K. Muto	A System of the Energy Formulation in Dynamic Analysis.	23	33-1	1944	33
*1984	T. Taniguchi H. Matsuyama H. Kobayashi	The Effects of Internal Friction of Buildings on the Amplitude of Seismic Oscillation.	23	36	1947	49
*1985	A. Mizuhara	Further Application of Slope-Deflection Method in Studying the Vibration of Bars.	23	39	1949	56
*1986	Y. Ohtsuki	Transmission Limiter of Seismic Accelaration (Seismic Free Construction).	23	42	1951	88
*1987	H. Tajimi	The Relation Between Magnitude of Building and Earthquake Force Acted on it. (Part 1).	23	49	1954	62
*1988	T. Hisada	Non-linear Vibration of Two-Story Buildings.	23	50	1955	67
*1989	T. Kobori K. Kaneta	On the Non-linear Vibrations of Buildings by Violent Earthquakes	23	51	1955	50
*1990	T. Kobori R. Minai	On the Non-linear Structural Behaviors under Destructive Earthquakes. (Part 1).	23	51	1955	61
*1991	T. Kobori K. Kaneta	On the Non-linear Torsional Vibrations of Framed Structures.	23	51	1955	70
*1992	T. Kobori R. Minai	On the Non-linear Structural Behaviors under Destructive Earthquakes. (Part 2:Behaviors of Structures with Artificially Non-linearized Characteristics.)	23	52	1956	41

No.	Author	Title	Source	No. or Vol.	Date	Page
* 1993	T. Kobori K. Kaneta	On the Nonlinear Torsional Vibrations of Framed Structures. - Complements.	23	53	1956	32
* 1994	T. Kobori	On the Nonlinear Structural Behaviors under Destructive Earthquakes (Part 3: Method to Obtain the Pattern of Seismic Waves Controlled and Filtered by the Dynamic Properties of Structures.)	23	54	1956	401
* 1995	T. Kobori R. Minai	On the Nonlinear Structural Behaviors under Destructive Earthquakes (Part 4: Overturning and Rocking-Motion of Prismatic Columns.)	23	54	1956	405
* 1996	T. Tajime	Theoretical Research on the Vibration of Structures Subjected to Earthquake Motion (Part 9: Comparison about Transient Vibration of Structures Due to Several Ground Motions .)	23	54	1956	413
* 1997	N. Ando	Earthquake Response of a Two-Story Building in Plastic Range.	23	54	1956	417
* 1998	Y. Sonobe	Study on Vibration Problems in Towery Structures.	23	54	1956	429
* 1999	T. Kobori	On the Nonlinear Structural Behaviors under Destructive Earthquakes. (Part 5: Note on the Yield Process Structure.)	23	57-1	1957	317
* 2000	T. Tajime	On the Spring Constant Ratio among Stories of an Architectural Construction Replaced by Means of Several Mass Systems. (Part 1).	23	57-1	1957	321
* 2001	R. Tanabashi S. Unno H. Ishizaki S. Kawamura	The Vibration Characters of the Crane Girders (Part 3)- Considerations to Diminish the Vibration in the Horizontal Transverse Direction.	23	57-1	1957	485
* 2002	T. Tajime	Transient Vibrations of Structures as the Ground Motion Stops in Several Waves.	23	60-1	1958	265
* 2003	S. Nakamura	On the Ideal Sectional Areas of Structural Members, Determined by the Free Vibration.	23	60-1	1958	289
* 2004	T. Tajime T. Iwashita	Natural Period of the Shearing Vibration of the Building Frames Whose Rigidity and Density Vary along the Height.	23	63-1	1959	309

No.	Author	Title	Source	No. or Vol.	Date	Page
*2005	M. Takeuchi M. Hara Y. Tanaka	Experimental Study of the Stiffness of the Structural Frame Influenced by the Distribution of Aseismic Walls.	23	63-1	1959	313
*2006	T. Tajime T. Iwashita	Free Vibration of the Slender Structures Whose Rigidity and Density Vary along the Height.	23	66-1	1960	241
*2007	Y. Ohsawa A. Shibata	Damping Due to Hysteretic Characteristics in Various Structural Members and Frames.	23	66-1	1960	245
*2008	T. Odaka F. Horie M. Ishibashi	Plastic Vibrations of Buildings - a Numerical Calculation of One Mass System.	23	69-1	1961	393
*2009	S. Kasai	A Study on the Capacity of Energy Absorption of the Structure.	23	80	1962	1
*2010	Y. Yokoo O. Matsuoka H. Kunieda	General Solutions of Spherical Shell in State of Free Vibrations. (1).	23	83	1963	7
*2011	Y. Tsuboi S. Kawamata	Approximate Evaluation of Natural Frequencies for Lateral Vibrations of Nonshallow Spherical Shells.	23	83	1963	15
*2012	Y. Yokoo O. Matsuoka H. Kunieda	General Solution of Spherical Shell in State of Free Vibrations. (2).	23	84	1963	22
*2013	T. Kobori	On the Structural Design of Tall Buildings.	23	89	1963	75
*2014	T. Kobori R. Minai	Note on the Developing Aseismic Design of Structures.	23	89	1963	183
*2015	M. Murakami	The Vibration Behavior of the Structure and the Boundary Effects at the Foundation.	23	89	1963	187
*2016	J. Sakurai	Stiffness Distribution of the Multi-mass Shear Vibration Systems with Same Fundamental Period.	23	89	1963	189
*2017	Y. Ohsawa	Dynamic Analysis of Tall Buildings with a Seismic Core Wall.	23	89	1963	191

No.	Author	Title	Source	No. or Vol.	Date	Page
*2018	Y. Yokoo N. Taga	On the Natural Frequencies of the Net Structure.	23	89	1963	233
*2019	Y. Yokoo O. Matsuoka H. Kunieda	General Solutions of Spherical Shell in State of Free Vibrations.	23	89	1963	234
*2020	H. Kobayashi T. Mogami	Vibration of Tall Building Due to Strong Earthquake, Part 1, Numerical Analysis Method on Response of Building.	23	95	1964	7
*2021	Y. Ohsawa T. Koh	A Proposal of the Structural Analysis Method of Core-Wall Buildings Subjected to Lateral Forces.-Elastic and Elasto-Plastic Analysis.	23	101	1964	23
*2022	Y. Ohsawa	Dynamic Characteristics of Core-Wall Building Subjected to Earthquake Motions.	23	102	1964	1
*2023	C. Katsuda N. Mashizu	Earthquake Isolation Method of Structure by a High Speed Electrohydraulic Servomechanism. Part 1, Theorectical Calculation and Response Diagram.	23	102	1964	10
*2024	T. Kobori R. Minai Y. Takeuchi	On the Numerical Analysis of Auto-correlation Function and Spectral Density.	23	103	1964	105
*2025	Y. Yokoo N. Taga	On Natural Frequencies of a Seilnet Structure.	23	113	1965	12
*2026	T. Sugano Y. Ohsawa	Study of the Vibrational Model of Framed Structure. - Part 1. Investigation of the Period for Shear Type Matrix Mass System.	23	Sup.	1965	127
*2027	J. Sakurai	A Study on the Natural Period of the Bending Vibration System.	23	Sup.	1965	128
*2028	# M. Iguchi, et al.	Study on the Bending and Shearing Vibration System.	23	Sup.	1965	129
*2029	# Y. Tanaka, et al.	Structural Analysis by Analog Simulation.	23	Sup.	1965	130
*2030	H. Akiyama T. Kato	Study on Damping Effects of Structure.	23	Sup.	1965	131

No.	Author	Title	Source	No. or Vol.	Date	Page
*2031	# T. Minami, et al.	Equivalent Viscous Friction for Bi-Linear Systems.	23	Sup.	1965	132
*2032	A. Shibata	Story Deflection of Tall Buildings Due to Earthquakes.	23	Sup.	1965	133
*2033	H. Oka	Overturning Momento of Tall Buildings.	23	Sup.	1965	134
*2034	# T. Hisatoku, et al.	Effect of Structural Model on Earthquake Response.	23	Sup.	1965	136
*2035	# K. Uchida, et al.	A Method of Vibration Analysis of Stack by Partial Differential Equation.	23	Sup.	1966	140
*2036	# T. Nishikawa, et al.	Dynamic Analysis of Multi-Mass and Shear Type Vibratory Systems for Building Structures Having Shear Walls.	23	Sup.	1966	143
*2037	# M. Kono, et al.	Statistical Method of Determining Dynamic Characteristics of Multi-Degree-of-Freedom Systems.	23	Sup.	1966	148
*2038	# T. Hagiwara, et al.	Effect of Axial Deformation on Dynamic Analysis of Multistoried Building. -One Spanned Symmetric Frame.	23	Sup.	1966	149
*2039	K. Takeyama	Floor Deformation of the Structures Subjected to Earthquake Motion.	23	Sup.	1966	153
*2040	K. Matsushita I. Sakamoto	Some Practical Ideas of High Rised Building Construction. A Trial How to Keep the Interstory Deflections of Living Floors within a Reasonable Limit.	23	Sup.	1966	154
*2041	J. Shimura T. Hattori	Automatic Tabulation of Stiffness Matrix for Any Kind of Frames (No. 2: For the Frame Including Curved Member.)	23	Sup.	1966	170
*2042	H. Narita	Characteristic Values of Vibration of Cantilever Shear Beam Similar to Multistory Building (I).	23	140	1967	41
*2043	H. Narita	Characteristic Values of Vibration of Cantilever Shear Beam Similar to Multistory Building. (II).	23	142	1967	23
*2044	K. Matsushita M. Izumi	Data Concerning Loads and Forces Applied to Buildings (Part 11: Problems on Seismic Force to Building Structures)	23	Sup.	1967	158
*2045	M. Izumi K. Matsushita	Data Concerning Loads and Forces Applied to Buildings. (Part 12: Vibrational Behavior of Model Grounds)	23	Sup.	1967	159

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2046	# K. Saito, et al.	Research on Damping of a Structure: Steady State Response of Bilinear and Double Bilinear Models.	23	Sup.	1967	174
* 2047	J. Sakurai S. Tani	Study on Vibrational Characteristics of Parallel Mass System. (No. 2.)	23	Sup.	1967	178
* 2048	# M. Iguchi, et al.	A Study on Coupled System of Bending and Shearing Vibrations. (Part 4.)	23	Sup.	1967	179
* 2049	T. Kuratsuji M. Togo	Vibration Properties of Structures Considering the Effects of Shear, Bending and Rotary Inertia.	23	Sup.	1967	180
* 2050	T. Nishikawa	Dynamic Properties of Tall Buildings : In Case of a Building with Pent House.	23	Sup.	1967	181
* 2051	# K. Tamamatsu, et al.	Dynamic Analysis of a Gabled Roof Frame.	23	Sup.	1967	182
* 2052	N. Sugiyama O. Matsuoka	On the Center of Structure Subjected to Horizontal Forces.	23	Sup.	1967	196
* 2053	# T. Koh, et al.	Torsional Vibration of Tall Building Composed of Open Frame and Walled Frame.	23	Sup.	1967	200
* 2054	# T. Tsugawa, et al.	A Seismic Analysis of B-Building (17 Stories) on Accounting of Torsional Deformation.	23	Sup.	1967	201
* 2055	# M. Inoue, et al.	A Seismic Analysis of A-Building (28 Stories) in Consideration of Axial Deformation.	23	Sup.	1967	202
* 2056	T. Ohya	Dynamic Characteristics of Space Structures.	23	149	1968	41
* 2057	T. Ohya	The Response Analysis for Elasto-Plastic Steel Arched Frame Due to Earthquakes.	23	156	1969	37
* 2058	H. Yamahara	Earthquake Response of Structure Based on Energy Balance.	23	187	1971	69
2059	T. Sano	The Effect of Sesimic Motion on the Angle of Repose of the Ground.	24	352	1916	151

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2060	T. Taniguchi	On the Natural Vibration Period of Framed Structure. (I).	24	466	1925	43
* 2061	T. Taniguchi	On The Natural Vibration Period of Framed Structures. (II).	24	467	1925	91
* 2062	T. Taniguchi	On the Natural Vibration Period of Framed Structures. (III).	24	470	1925	177
* 2063	S. Maruyama	Solution of Earthquake Stresses in Building Frames.	24	473	1925	337
* 2064	A. Mizuhara	On the Vibration Curves of Structures. (I).	24	475	1925	478
* 2065	T. Taniguchi	On the Natural Vibration Period of Framed Structures. (IV).	24	475	1925	487
* 2066	K. Muto	Vibration of Building and Its Relation to Earthquake.	24	476	1925	535
* 2067	M. Orimoto	Law of Middle-Third Refered to Inflection Point of Beam.	24	477	1925	671
* 2068	A. Mizuhara	On the Vibration Curves of Structures. (II).	24	478	1926	45
* 2069	T. Taniguchi	On the Weakest Story of Framed Structures against Earthquake.	24	480	1926	272
* 2070	K. Suehiro	The Theory of Vibration of Structures and a Method of Measuring It.	24	484	1926	531
* 2071	A. Mizuhara	On the Vibration Curves of Structures. (III).	24	489	1926	1020
* 2072	N. Sumiki	On Several Discussions Appeared in the Journal of I.J.A. on Vibrations of Framed Structures at the Time of Earthquakes.	24	489	1926	1051
* 2073	A. Mizuhara	On the Vibration Curves of Structures. (Appendix)	24	493	1927	212
* 2074	T. Nakamura	The Theory of Earthquake-Proof Construction from the Standpoint of Energy.	24	493	1927	226
* 2075	K. Majima	Discussion on Prof. Sano's Lecture "On the Opinion Concerning to Earthquake-Proof Construction".	24	494	1927	257

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2076	T. Nakamura	On the Equipment for Absorbing the Energy of Earthquakes.	24	496	1927	701
* 2077	T. Hirayama	How to Construct the Anti-Vibrating-Foundation of the Tall Building on Soft Ground.	24	496	1927	706
* 2078	A. Mizuhara	Exercise on the Vibration of Multi-story Frames. (I).	24	497	1927	756
* 2079	K. Muto	On the Deflection of Rectangular Frame under Horizontal Forces.	24	497	1927	767
* 2080	S. Ban	Analysis of Statically Indeterminate Structure without Solving Simultaneous Equations. (I).	24	498	1927	920
* 2081	S. Ban	Analysis of Statically Indeterminate Structure without Solving Simultaneous Equation. (II).	24	499	1927	1035
* 2082	S. Ban	Analysis of Statically Indeterminate Structure without Solving Simultaneous Equations. (III).	24	500	1927	1123
* 2083	A. Mizuhara	Exercise on the Vibration of Multi-story Frames.(II).	24	501	1927	1231
* 2084	T. Kono	The Theory of the Vibration of Rectangular Frames. (I).	24	502	1927	1363
* 2085	Y. Yano	Effect of Axial Self Weight upon the Vibration of Structures.	24	506	1928	171
* 2086	A. Mizuhara	On the Vibration of Multi-story Frames.	24	507	1928	247
* 2087	A. Mizuhara	Correction of Equations for the Vibration Curves of Multi-story Frames as to the Effect of Distributed Loads.	24	509	1928	495
* 2088	R. Oka	On the Study of Anti-Earthquake Foundation.	24	511	1928	727
* 2089	T. Nakamura	On the Vibration of Structures.	24	515	1928	1227
2090	T. Nakamura	On the Vibrations of Structure (List of Corrections)	24	518	1929	184
2091	A. Mizuhara	An Example of Calculation of Vibration Modes in a Tall Rigid Frame Structure.	24	522	1929	609

No.	Author	Title	Source	No. or Vol.	Date	Page
2092	K. Muto	On the Damped Vibrations.	24	523	1929	672
2093	R. Oka	Study on Earthquake Insensitive Structures.	24	527	1929	1425
2094	K. Muto	The Theory of Structural Vibration.	24	528	1929	1531
2095	K. Muto	On the Horizontal Vibration of Rectangular Rigid Frame Structures (Supplements 1 and 2).	24	528	1929	1549
2096	K. Muto	Simplified Equations for Calculation of the First Natural Vibration Period of Rigid Frame Structures.	24	528	1929	1579
* 2097	C. Fuse	On the Vibration of Building Construction.	24	531	1930	545
* 2098	A. Mizuhara	Diagrams of the Vibration Curves of High Framed Structures.	24	534	1930	1239
* 2099	K. Muto	Discussion on the Tanaka's Paper "On the Disposition of Rectangular Frames."	24	544	1931	521
* 2100	S. Ban	On the BucklingLoad and the Period of Free Oscillation of Loaded Structure.	24	546	1931	861
* 2101	F. Takabeya	On Moment-Linear Equations for the Calculation of Seismic and Wind Stabilities of Skyscraper Building Frames.	24	558	1932	629
* 2102	R. Tanabashi	Systematic Solution of the High Building Frame and the Problem of Influence-Line.	24	565	1932	1459
* 2103	R. Oka	On the Loads Distribution in a Building of Earthquake-Resisting Construction.	24	574	1933	1169
* 2104	R. Tanabashi	On the Torsional Vibration of Structures.	24	583	1934	333
* 2105	T. Kono	Theoretical Study of Vibration of Reinforced Concrete Columns.	24	584	1934	328
* 2106	T. Taniguchi	Effect of the Foundation of the Period of Free Oscillation of Tower.	24	584	1934	341
* 2107	F. Takabeya	Practical Calculation of High Storied Bents Subjected to Pressure and Seismic Joint Loads by the Method of Slope Distribution.	24	597	1935	392

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2108	T. Tani	The Approximate Method of Rectangular Frames Subjected to Horizontal Force.	24	598	1935	420
* 2109	S. Kawashima	Analogy between Electrical and Mechanical Vibrating Systems. (1).	24	633	1937	1510
* 2110	S. Kawashima	Analogy between Electrical and Mechanical Vibrating Systems. (2).	24	634	1938	30
2111	R. Tanabashi	Evaluation of the Earthquake Resistant Effect of Damping.	24	691	1942	779
2112	T. Kobori	Fundamental Study of Building Structures from the View Point of Earthquake Engineering.	24	873	1959	10
2113	H. Tajimi	Fundamental Study on the Theory of Earthquake resistant Design.	24	887	1960	381
2114	M. Naruoka	On the Calculation of Natural Frequencies of a Square Plate with Fixed Four Sides.	26	3	1949	154
* 2115	T. Hatano	Seismic Force Effect on Gravity Dams. (No. 1)	26		1949	80
* 2116	T. Hatano	Seismic Force Effect on Gravity Dams (No. 2 : Accurate Solution of Dynamic Water-Pressure on ams during Earthquake.)	26		1949	174
* 2117	T. Hatano	Seismic Force Effect on a Gravity Dam.(No. 3 : Elastic Vibration of a Gravity Dam in Full Reservoir.)	26	5	1950	83
* 2118	S. Kinai	Lateral Vibration Theory on Beams and Rectangular Slabs.	26	5	1950	127
* 2119	I. Konishi H. Goto	A Dynamical Consideration on Earthquake Damage of Bridge Piers. (1st Report: Free Vibration of Bridge Piers.) (2nd Report: Forced Vibration Due to Seismic Motion.)	26	6	1951	58
* 2120	H. Goto	Fundamental Studies on the Flexural Vibration of Beams on Elastic Foundation.	26	6	1951	121
* 2121	K. Abe	Study on the Vibration of Langer's Bridge.	26	14	1952	37

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2122	T. Sakai	General and Practical Calculation Formulae of the Stresses in Hollow Cylindrical Shell Due to Forced Vibration.	26	18	1953	52
* 2123	T. Singo	The Wave Velocity of Transverse Vibration of Rectangular Thin Plates Considering Rayleigh's Rotatory Moment of Inertia and Timoshenko's Effect of Shear.	26	19	1954	8
* 2124	H. Goto	On the Method of Dynamic Earthquake-Proof Computation on the Bridge Piers and Well Construction.	26	24	1955	68
* 2125	H. Goto	On the Effect of Shearing Force on the Elastic and Rocking Vibration of Bridge Piers and Well Constructions.	26	29	1955	88
* 2126	S. Yoshida	A Numerical Analysis of Rigid Frames in Space (Read at the 11th Anual Meeting Held by Society at Fukuoka, May 29, 1955.)	26	33	1956	1
* 2127	R. Arai T. Yamauchi	The Study on the Stresses in Trusses by the Electric Circuit Analogy.	26	33	1956	31
* 2128	S. Kotsubo	Dynamic Water Pressures on Arch Dams During Earthquakes.	26	44	1957	28
* 2129	Y. Ohchi	Matrix Analysis of Plane Flame Structures.	26	47	1957	7
* 2130	S. Kotsubo	Dynamic Water Pressure on Dams Due to Irregular Earthquakes.	26	47	1957	38
* 2131	M. Kajiwara	Oscillating Characteristics of Rigid Body on Elastic Foundation. - On the Seismic Stability of Quay Wall. Report No. 1.	26	55	1958	37
* 2132	T. Hatano	An Examination of the Rocking Phenomenon.	26	62	1959	6
* 2133	K. Kubo	Vibration of Suspension Bridge due to Vertical Ground Motion.	26	75	1961	69
* 2134	H. Goto T. Saito	Vibration Analysis and Model Tests of Bridge Piers Embedded in an Elastic Foundation, Taking Vibrating Mass of Soil into Consideration.	26	83	1962	23

No.	Author	Title	Source	No. or Vol.	Date	Page
*2135	I. Hirai	Dynamic Analysis of Grid Works by the Method of Composition.	26	101	1964	25
*2136	T. Hatano	Practical Use of Block Adjustment for Aerial Triangulation of Large Area by Means of Medium Electronic Computers.	26	110	1964	10
*2137	M. Ito T. Katayama	Damping of Bridge Structures.	26	117	1965	12
* 2138	A.M. Freudenthal M. Shinozuka	Probability of Structural Failure under Earthquake Acceleration.	26	118	1965	9
* 2139	T. Hatano H. Konno	Numerical Solution of Hydrodynamic Pressures During Earthquakes on Arch Dam.	26	131	1966	19
*2140	S. Kuranishi	On the Damping of Vertical Vibration in Suspension Bridges by Damping Equipments.	26	142	1967	1
*2141	S. Kotsubo T. Takanishi	Statistical Analysis of Earthquake Response of Steel-Pipe Bridge Pier with Consideration of Upper Layer Deformation.	26	156	1968	58
*2142	T. Aida	Three-Dimensional Analysis of Free Vibration of Trussed Girders.	26	163	1969	1
*2143	Y. Yamada H. Takemiya	Studies on the Statistical Aseismatic Safety of Relatively Long Period Structures.	26	172	1970	63
*2144	S. Shimada	An Application of Correlation Techniques to the Dynamic Measurements of Structures.	26	174	1970	11
*2145	H. Goto H. Iemura	A Study on the Plastic Deformation of Elasto-Plastic Structures in Strong Earthquakes.	26	184	1970	57
*2146	S. Kuranishi T. Takahashi	Vibration Analysis of Beams with Damping at Discrete Location.	26	187	1971	9
*2147	H. Tada Y. Shindo M. Kurata	Three-Dimensional Vibrations of Tower and Multi-column Pier Foundation.	26	194	1971	41

No.	Author	Title	Source	No. or Vol.	Date	Page
*2147'	T. Kunii	Fundamental Studies on Approximative Method of Calculation of Non-Linear Earthquake Response.	26	196	1971	1
2148	N. Mononobe	On the Earthquake-Induced Vibration and the Earthquake Resistant Capacity of Tower-Like Structures.	27	5	1919	561
2149	N. Mononobe	On the Earthquake-Induced Vibration and the Earthquake Resistant Capacity of Load-Carrying Structures.	27	6	1920	581
*2150	K. Majima	On the Phases of Oscillation of Structures Caused by Earthquake Motions.	27	10	1924	49
*2151	N. Mononobe	Study and Vibration Theory on Vertical Earthquake Motion.	27	10	1924	1063
*2152	K. Majima	Construction of Multiple Story Buildings Subject to Earthquakes.	27	12	1926	229
*2153	K. Majima	On Multiple Node Vibrations of Structures Caused by Earthquakes.	27	12	1926	965
*2154	T. Mogami	Vibration of Two Hinged Arch.	27	23	1937	1358
*2155	S. Okamoto	Horizontal Vibration of Hollow Cylinder.	27	25	1939	199
*2156	S. Okamoto	On Analysis of Vibrations of the Rahmen Structure by Means of the Four Moments Theory.	27	25	1939	1395
*2157	T. Sakai	Practical Method of Calculation for Natural Vibration Periods of High Storied Bents with Multiple Bays by Energy Method.	27	26	1940	11
*2158	K. Iguchi	On the Lateral Vibration of a Rectangular Plate with Pairs of Simply Supported and Perfectly Free Two Opposite Edges.	27	26	1940	427
*2159	T. Sakai	Solution of Vibration of High Storied Bents with Multiple Bays by Differential Equation Method and Practical Formula for Calculation of Natural Vibration Periods.	27	26	1940	441

No.	Author	Title	Source	No. or Vol.	Date	Page
*2160	T. Mogami	On the Application of the Reciprocal Theorem to the Vibration Problems and Its Relation to the Principle of Rayleigh.	27	27	1941	476
*2161	S. Okamoto	Solution to the Vibration of Framing by Means of Four Moments Theorem. (2nd Report).	27	28	1942	14
2162	T. Sakai	Proposed Practical Formulas for Calculation of Vertical Vibration Periods of Load-Carrying Rigid Frame Structures.	27	29	1943	1
*2163	K. Tanaka	On the Vibration of the Beam by a Short-time Acting Force.	27	33-1	1948	27
*2164	T. Hatano	Influence of Seismic Force Acting on Gravity Dams	27	35-1	1950	8
*2165	K. Abe	Forced Vibration of a Beam Affected by Seismic Movement and Application of the Orthogonal Function Group to Solving Its Seismic Coefficient.	27	35-2	1950	17
*2166	H. Goto	Fundamental Studies on the Flexural Vibration of Beams on Elastic Foundation.	27	35-4	1950	29
*2167	T. Sakai	Calculation Formulae of Deformation Due to Horizontal Load and Natural Vibration Period for High Storied Bents with Constant Ratio of Stiffness.	27	36-3	1951	13
*2168	K. Abe	On the Application of Functional Systems for Vibration of Bridges.	27	36-3	1951	18
*2169	M. Hatanaka	On the Free Vibration of Harbour Pier.	27	36-10	1951	11
*2170	M. Hatanak	Three Dimensional Consideration on the Vibration of Earth Dams. On the Free Vibration.	27	37-10	1952	1
*2171	S. Murayama K. Tanimoto	A Numerical Solution of Eigenvalue Problem.	27	38-4	1953	10
*2172	H. Goto	On a Vibration Characteristics of the Bridge Substructure.	27	38-4	1953	14

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2173	H. Goto	On an Approximate Solution on the Natural Periods of the Super-and Substructures of the Bridge.	27	38-6	1953	15
* 2174	S. Okamoto	Two Studies on the Circular Cylindrical Shells.	27	38-7	1953	1
* 2175	H. Goto	On the Calculation of Natural Period of Bridge Sub-structures in the Parallel Direction to Bridge Axis.	27	39-7	1954	13
* 2176	I. Konishi Y. Yamada	On the Structural Damping and Its Application to Forced Vibration Characteristics in Beam Bridge.	27	41-2	1956	7
2177	M. Naruoka	Application of Digital Computers in Structural Analysis (Part 1).	27	43-12	1958	43
2178	M. Naruoka	Application of Digital Computers in Structural Analysis (Part 2).	27	44-1	1959	23
* 2179	Y. Yamada T. Kobori	Program to Find the Period of Natural Oscillation (Eigenschwingung) of Girder Bridge and Its Characteristic Function. - Transfer Matrix Method.	27	52-9	1967	50
2180	H. Ishizaki N. Hatakeyama M. Seriu	On the Calculation of Two Dimensional Vibration Frequencies of a Triangular Structure.	28	III	1959	55
2181	T. Hatano	Vibration of a Visco-Elastic Structure.	28	VI	1963	21
2182	A. Ono H. Tsutsumi	Some Thoughts on Vibration Characteristics of Cylinders Subjected to Earthquake Ground Motion.	28	IX	1967	63
2183	T. Kunii	Nonlinear Response of Systems under Bending Vibration.	28	X	1969	35
2184	H. Goto H. Kameda	Study of Random Vibration of Structures - Particularly on the Rate of Level Crossing.	28	X	1969	91
* 2185	T. Takeda H. Okada Y. Omote	Developed Computer Program for Dynamic Analysis of Multistory Building. (Part 2) Non-linear Response of Moment-Yielding Type.	30	5	1971	27
2186	A. Takase T. Tsugawa K. Miyashita H. Ueno	Elasto-Plastic Analysis of Tall Steel Frames.	31	18	1969	357

No.	Author	Title	Source	No. or Vol.	Date	Page
2187	K. Muto T. Koh A. Takase H. Tsugawa M. Osada T. Murata H. Ueno E. Fukuzawa	Three Dimensional Analysis of Tall Buildings.	31	18	1969	369
*2188	Y. Konishi	The Model Analysis of Vibration System.	32	14	1969	89
*2189	Y. Yamaguchi	Problems in the Seismic Response Analysis.	34		1970	135
*2190	N. Kobayashi	Fundamental Treatment for the Visco-Elastic Solid.	35	6	1969	27
*2191	R. Tanabashi T. Nakamura	On the Ultimate States of Rigid Frames Subjected to Earthquakes.	36	I	1962	51
*2192	R. Tanabashi K. Kaneta	On the Relation Between the Restoring Force Characteristics of Structures and the Pattern of Earthquake Ground Motion.	36	I	1962	57
*2193	T. Kobori R. Minai	Eigenvalue Problem in Earthquake Response Analysis.	36	I	1962	147
*2194	T. Kobori R. Minai K. Tagawa	Elasto-Plastic Response of Multi-Story Structure Subjected to Strong Motion Earthquake.	36	I	1962	165
*2195	Y. Gyoten H. Tane Y. Nishimura	Natural Periods and Modes of Shear-bending Vibration of Braced Frames	36	II	1966	155
*2196	A.L. Andrews	Modal Analysis of Flexibility Coefficients by Slide Rule.	36	II	1966	191
*2197	R.W. Clough S.B. Johnston	Effect of Stiffness Degradation on Earthquake Ductility Requirements.	36	II	1966	227
*2198	Y. Gyoten K. Mizuhata Y. Hooka Y. Fukuda	Earthquake Response Analysis of Shear Beam Type Structure by the Direct Numerical Analysis Method.	36	III	1970	333

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2199	H. Kameda H. Iemura	Dynamic Response of Single-Degree-of-Freedom Hysteretic Systems. - Application of an Equivalent Linearization Technique.	36	III	1970	349
* 2200	R. Tanabashi	Non-Linear Vibrations of Structures.	37	I	1956	6-1
* 2201	E. Rosenblueth	Applications of Probability Theory.	37	I	1956	8-1
* 2202	C.M. Rodriguez	Design of Plastic Steel Structures.	37	I	1956	15-1
* 2203	N. Ando	Nonlinear Vibrations of Building Structures.	37	II	1960	1045
* 2204	T. Tajime	Theoretical Research on the Transient Vibration of Structures Subjected to Earthquake.	37	II	1960	1207
* 2205	R. Tanabashi	Nonlinear Transient Vibration of Structures.	37	II	1960	1223
* 2206	V.V. Bolotin	Statistical Theory of the Aseismic Design of Structures.	37	II	1960	1365
* 2207	S. Gershanik G. Dedebant	A Solution of the Basic Differential Equation of Seismic Loads and Its Relation with the Expansion on Series of Eigenfunctions.	37	II	1960	1149
* 2208	S. Cherry A.G. Brady	Determination of Structural Dynamic Properties by Statistical Analysis of Random Vibrations.	37	III	1965	II-50
* 2209	R.W. Clough K.L. Benuska E.L. Wilson	Inelastic Earthquake Response of Tall Buildings.	37	III	1965	II-68
* 2210	T. Hatano	Vibration of Visco-elastic Body.	37	III	1965	II-126
* 2211	H. Kobayashi	The Deflection of Tall Building Due to Earthquake.	37	III	1965	II-321
* 2212	T. Naka T. Kato M. Yuasa	Dynamical Analysis of Steel Structure by Electronic Analogy.	37	III	1965	II-384
* 2213	T. Odaka F. Horie	A Study on the Optimum Value of a Seismic Coefficient.	37	III	1965	II-399

No.	Author	Title	Source	No. or Vol.	Date	Page
*2214	R.J. O'Driscoll R. Shepherd J.H. Wood	The Determination of the Normal Mode Properties of Multistory Rectangular Rigid Framed Structures Using an Electrical Analogy.	37	III	1965	II-421
*2215	Y. Ohsawa	Seismic Analysis of Core-wall Buildings.	37	III	1965	II-458
*2216	J. Penzien A.K. Chopra	Earthquake Response of Appendage on a Multi-story Building.	37	III	1965	II-476
*2217	J.M.J. Pereira	Behavior of an Elasto-Plastic Oscillator Acted by Random Vibration.	37	III	1965	II-491
*2218	M.F. Rubinstein	An Engineering Approach to Computing the Natural Modes and Frequencies of a Tall Building.	37	III	1965	II-516
*2219	W.E. Saul J.F. Fleming S.L. Lee	Dynamic Analysis of Bilinear Inelastic Multiple Story Shear Buildings.	37	III	1965	II-533
*2220	T. Shiga	Torsional Vibration of Multi-storied Buildings.	37	III	1965	II-569
*2221	R.I. Skinner D.W.C. Skilton D.A. Laws	Unbalanced Buildings and Buildings with Light Towers, under Earthquake Forces.	37	III	1965	II-586
*2222	S.S. Tezcan	Earthquake Analysis of Space Structures by Digital Computers.	37	III	1965	II-631
*2223	R.K. Wen J.G. Janssen	Dynamic Analysis of Elasto-inelastic Frames.	37	III	1965	II-713
*2224	A.R. Chandrasekaran	Joint Rotation Effects on the Dynamics of Multi-Storied Frames.	37	III	1965	II-769
*2225	W.D. Iwan	The Dynamic Response of the One Degree of Freedom Bilinear Hysteretic System.	37	III	1965	II-783
*2226	A.G. Nazarov	Theoretical Foundation of Investigation of Earthquake Resistance of Structures on Models.	37	III	1965	II-812
*2227	Y. Ohchi	Response Analysis of Framed Structures.	37	III	1965	II-825

No.	Author	Title	Source	No. or Vol.	Date	Page
*2228	M.C. Soteriades	Analysis of Dynamic Response of Multistory Buildings under Earthquake Forces, for Design Purposes.	37	III	1965	II-835
*2229	S. Gershanik	The Closed Expression of the Response of a Shear Building to a Transient Sinusoidal Excitation.	37	III	1965	II-853
*2230	J.E. Gimenez	Seismic Analysis of Buildings.	37	III	1965	II-854
*2231	M. Ifrim	Contributions to the Seismic Analysis of Frame Structures.	37	III	1965	II-855
*2232	M.G. Korf	Deformation Method in Earthquake Engineering.	37	III	1965	II-858
*2233	E.J. Sôlnes	The Earthquake Response of a Cantilever Timoshenko Beam.	37	III	1965	II-860
*2234	V.E. Urioste	A New Method for Antiseismic Buildings Design Employing an "Electrical Network Analogie of Frames" together with Differential Analog Computer.	37	III	1965	II-861
*2235	R.J. Burns	An Approximate Method of Analysing Coupled Shear Walls Subject to Triangular Loading.	37	III	1965	IV-123
*2236	K. Takeyama	A Study on the Earhtquake Response of Space Structures by Digital Computers.	37	IV	1969	A3-33
*2237	P.C. Jennings	Spectrum Techniques for Tall Buildings.	37	IV	1969	A3-61
*2238	J. Penzien	Earthquake Response of Irregularly Shaped Buildings.	37	IV	1969	A3-75
*2239	S. Lamar C. Fortoul	Brick Masonry Effect in Vibrations of Frames.	37	IV	1969	A3-91
*2240	B.P. Guru A.C. Heidebrecht	Factors Influencing the Inelastic Response of Multi-Story Frames Subjected to Strong Motion Earthquakes.	37	IV	1969	A4-1
*2241	R. Husid	The Effect of Gravity on the Collapse of Yielding Structures with Earthquake Excitation.	37	IV	1969	A4-31
*2242	N.C. Nigam G.W. Housner	Elastic and Inelastic Response of Framed Structures during Earhtquakes.	37	IV	1969	A4-89

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2243	T. Odaka T. Suzuki K. Kinoshita	Non-linear Response Analysis of Multi-story Structures Including Rocking and Swaying Vibration Subjected to Earthquake Ground Motions.	37	IV	1969	A4-105
* 2244	R.A. Spencer	The Nonlinear Response of a Multistory Prestressed Concrete Structure to Earthquake Excitation.	37	IV	1969	A4-139
* 2245	A.S. Veletsos	Maximum Deformations of Certain Nonlinear Systems.	37	IV	1969	A4-155
* 2246	A. Poceski	Response Spectra for Elastic and Elasto-Plastic Systems Subjected to Earthquakes of Short Duration.	37	IV	1969	A4-171
* 2247	Y.P. Gupta A.R. Chandrasekaran	Absorber System for Earthquake Excitations.	37	IV	1969	B3-139
* 2248	V.A. Bykhovsky F.V. Bobrov E.S. Medvedeva	Some Long-Span Construction in Earthquake Regions and Choice of the Type of Structure on the Basis of Wave Dynamic.	37	IV	1969	B4-119
* 2249	M.F. Barstein	Dynamics of Extended-In-Plan Structures in Strong Earthquakes.	37	IV	1969	B4-153
2250	T. Kobori R. Minai M. Ikeda	Seismic Response Analysis of Rigid Frame Structures Including Elasto-Plastic Joints.	38	II	1965	177
2251	T. Kobori R. Minai Y. Takeuchi	Statistical Response of a Linear System Subjected to Non-Stationary Input.	38	II	1965	181
2252	T. Kobori R. Minai Y. Takeuchi M. Kono	Determination of Linear Transfer Function of Structure with Multiple Degrees of Freedom by Means of Stochastic Method.	38	II	1965	185
2253	T. Kobori R. Minai Y. Takeuchi	The Optimal Transfer Function in the Linear Multiple Input and Output System.	38	II	1965	189
2254	R. Tanabashi S. Ishida	On the Tall Rigid Frame Structure under the Impact-Like Earthquake Ground Motion.	38	III	1966	180

No.	Author	Title	Source	No. or Vol.	Date	Page
		D - 5 Vibration Testing Machines Theory				
		D - 5 - 1 Shaking Tables				
2255	B. Mano	Report on the Modification of Artificial Earthquake Shaking Table for Earthquake Simulation.	1	21	1898	5
* 2256	K. Kanai K. Sezawa	A Vibration Table with Silmultaneous Horizontal and Vertical Motions.	5	20	1942	220
2257	S. Hayeno T. Fuchida	The Trial Construction of A Shaking Table.	21	6	1934	75
2258	S. Hayeno	The Shaking Table for Generating and Maintaining Self Excited Oscillations.	21	9	1937	102
* 2259	I. Toriumi	Model Test on the Random Shaking Table.	21	II-16	1963	208
* 2260	C. Katsuta M. Kato H. Kobayashi A. Matsumura H. Takai Y. Ikebe	A Study on Automatic Load Control of Unstationary Dynamic Testing Machine for Structural Members.	23	104	1964	6
* 2261	# C. Katsuta, et al.	A Random Vibration Testing Machine by a Electro-hydraulic Servomechanism.	23	Sup.	1965	143
* 2262	# T. Tajime, et al.	Experimental Study on a Random Vibration Testing Machine by a Electrohydraulic Servomechanism.	23	Sup.	1965	144
* 2263	N. Mashizu C. Katsuta	An Earthquake Isolation System in Large Size of Structure by a Electrohydraulic Servomechanism.	23	Sup.	1965	145
* 2264	K. Yamada C. Katsuta N. Mashizu	Frequency Response of an Earthquake Isolation System in Large Size of Structure by an Electrohydraulic Servomehcanism.	23	Sup.	1965	146
* 2265	T. Masao T. Tajime	Electrohydraulic Shaking Table Controlled by Velocity.	23	Sup.	1966	126

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2266	The Editorial Committee	Aseismic Engineering Completion of Large Type Vibration Stand.	27	52-12	1967	54
2267	Y. Ishii S. Hayashi	Trial Construction of a Vibration Testing Machine and Its Performance.	28	I	1957	21
* 2268	K. Haryu S. Meju	Some Experiments by Means of a Shaking Table.	28	III	1959	3
* 2269	T. Tsunoda	Model Test on the Vibration Table and Outline of the Random Vibration Table in Our Laboratory.	30	1	1967	57
* 2270	T. Tajime C. Katsuta N. Mashizu T. Masao	New Type of Two Axes Electrohydraulic Shaking Table by Servomechanism and Earthquake Response of One Mass System.	36	II	1966	139
* 2271	Ju. N. Marozov E. Tyablikov A.T. Oganesyan	High-capacity Shaking Tables for Seismic Tests with Hydraulic Exciting.	36	II	1966	145
* 2272	M. Mery S. Rica M. Lillo J. Chesta	Forced Vibration Shaking Table in the Institute of Experimental Stability of University of Chile.	37	III	1965	II-822
* 2273	K. Kubo	Vibration Test of a Structure Supported by Pile Foundation.	37	IV	1969	A6-1
* 2274	E. Lauletta A. Castoldi	Earthquake Simulation by a Shake Table.	37	IV	1969	B5-87
* 2275	J.G. Bouwkamp R.W. Clough J. Penzien D. Rea	Design and Research Potential of Earthquake Simulator Facilities.	37	IV	1969	B5-101
* 2276	M.A. Sozen S. Otani P. Gulkan N.N. Nielsen	The University of Illinois Earthquake Simulator.	37	IV	1969	B5-139

No.	Author(s)	Title	Source	No. or Vol.	Date	Pag
2277	T. Tajime	Seismic Response of an One-Story Rigid Frame Structure by an Automatically Controlled Shaking Table of Hydraulic Type.	38	II	1965	173
2278	T. Tajime T. Masao	A Two-Directional Shaking Table of Hydraulic Type and Seismic Response of a Single Mass Particle System Shaken by It.	38	III	1966	176
	D - 5 - 2 Vibration Generators and Exciters					
2279	D. Mori B. Tomita	On Vibration Generators and Exciters	11	5	1953	49
2280	K. Nakagawa	Trial Construction of a Large Vibration Generator	22	7	1950	123
2281	T. Yoshida	On the Vibration Generator that can Produce Random Wave Forms.	28	V	1961	1
2282	T. Takeda I. Moritaka	Impact Testing Apparatus.	30	1	1967	47
	D - 6 Static Test of Structures and Its Theory					
	D - 6 - 1 Members and the Strengths of Joints					
2283	S. Tanabe T. Hibi	The Report on the Test of Lumber Strength.	1	40	1903	19
2284	F. Tanaka	The Ultimate Bending Strength of Lumber and the Tanaka Equation.	1	61	1908	1
2285	A. Shibata I. Hiroi	First Report on Experiment on Reinforced Concrete.	1	61	1908	13
2286	T. Sano T. Nakano K. Tatsuno	First Report on Experiment on Stone Materials.	1	61	1908	21
*2287	D. Shimozuru	Study on the Coefficient of Internal Friction of Materials Used in Civil Engineering and Architectural Structures. (1st Report).	5	27	1949	85

No.	Author	Title	Source	No. or Vol.	Date	Page
*2288	N. Miyabe S. Inomata	Mechanical Strength of "Dokaku".	6	3-1	1936	141
*2289	T. Hatano	Theory of Failure of Concrete and Similar Brittle Solid on the Basis of Strain.	19	67065	1967	
*2290	T. Taniguchi M. Imai	Research on the Reliability of Welded Joint under Repeated Stressing.	23	9	1938	171
*2291	T. Taniguchi M. Imai	Research Relating to the Strength of Steel Joints against Impact.	23	21	1941	289
*2292	T. Okamoto	Cylindrical Shell Roofs Subjected to Horizontal Force in Longitudinal Direction.	23	60-1	1958	429
*2293	Y. Tsuboi M. Kawaguchi	An Experimental Study on Cylindrical Shells Subjected to Antisymmetrical Bending.	23	60-1	1958	437
*2294	S. Ban S. Igarashi F. Ochi	Experimental Research for Plastic Connections of Steel Skeletons - Joint Connections.	23	60-1	1958	501
*2295	M. Makino	An Experimental Study on Strength of Light Gage Steel Frames.	23	60-1	1958	517
*2296	T. Naka T. Kato S. Yoshimoto	Research on High-Tension Bolted Joints - Experiments of Column to Beam Connections with Tension Bolts.	23	60-1	1958	541
*2297	B. Taguchi S. Koizumi	Strain Tests on Steel Column Base Plates.	23	60-1	1958	545
*2298	T. Odaka	Experimental Study on the End Connection for Steel Structure - On the End Connection Welding.	23	60-1	1958	549
*2299	T. Naka H. Saito	Investigation of the Strength of Welded Beam - Column Connections, Part 9 - Distribution of Beam Force into Column Web.	23	60-1	1958	569
*2300	M. Hirano	Additional Strength of Cross Sections and that of Structures.	23	63-1	1959	397

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2301	Y. Yokoo S. Igarashi	Columns under Combined Vertical and Horizontal Loads.	23	63-1	1959	509
* 2302	S. Igarashi J. Sakamoto	Experimental Research for Plastic Connections of Steel Skeleton - Welded Thin Plate Connections.	23	63-1	1959	513
* 2303	T. Odaka	Experimental Study on the End Connection for Steel Structure.	23	63-1	1959	517
* 2304	T. Naka H. Saito	Investigation of the Strength of Welded Beam-Column Connections - On Various Types of Stiffeners.	23	63-1	1959	521
* 2305	S. Igarashi J. Sakamoto	Experimental Research for Plastic Connections of Steel Members	23	66-1	1960	549
* 2306	K. Washio H. Kurobane	Research on the Welded Connection for Square Steel Tube.	23	66-1	1960	561
* 2307	T. Naka H. Saito	Investigation of the Strength of Welded Beam-Column Connections - Part 15.	23	66-1	1960	569
* 2308	T. Naka S.Yoshimoto	Research on High Strength Bolted Joint Subjected to Tension and Shear Loading.	23	66-1	1960	577
* 2309	T. Kimura I. Funahashi K. Kinoshita	Research on High Tensiles Bolt Friction Joint (Experimental Study for Single Shear Joint).	23	66-1	1960	581
* 2310	# K. Fujita T. Shiga T. Matsuda,et al.	Test on Riveted Joints of Aluminium Alloy for Buildings.	23	66-1	1960	597
* 2311	K. Fujita T. Siga J. Suzutani,et al.	Experiments on Aluminum Alloy Joints.	23	69-1	1961	629
* 2312	K. Washio Y. Kurobana	Research on the Welded Connection for Square Steel Tube - Part 4, Discussion About Experimental and Theoretical Collapse Loads for the Test Specimens.	23	69-1	1961	673
* 2313	T. Odaka	A Study on the End-Connection for Steel Structure.	23	69-1	1961	685

No.	Author	Title	Source	No. or Vol.	Date	Page
*2314	J. Sumita S. Igarashi M. Tomoda,et al.	Experimental Research for Plastic Connections of Steel Skeltons under Alternate Moment.	23	69-1	1961	689
*2315	H. Umemura M. Murakami	A Study on the Seismic Design of the Lead Cable.	23	76	1962	92
*2316	K. Washio H. Kurobane Y. Imoo	Tube to Gasset Plate Connection by Welding.	23	76	1962	146
*2317	K. Kurobane K. Washio	Welded Connection for Square Steel Tube. Part 6.	23	76	1962	147
*2318	S. Kokusho	Experimental Study on the Joint of Precast Concrete Members - Effects of Shape of Construction Joints on Strength.	23	89	1963	141
*2319	S. Tani	On the Adaptability of Aseismic Elements.	23	89	1963	74
*2320	J. Sakamoto	Stability of Plastic Hinge in Steel Member.	23	89	1963	101
*2321	Y. Suenaga R. Sasaki K. Ueda	Experimental Studies on the Joint of Steel Framed with Box Column.	23	89	1963	107
*2322	T. Taguchi H. Aoki T. Asakura	On the Shearing Forces of Steel Column Bases.	23	89	1963	108
*2323	T. Igarashi	Load-Deformation Relations of Steel Members under Cyclic Loadings.	23	89	1963	109
*2324	T. Naka T. Kato T. Sasaki	Experimental Study on Behavior of Steel Connections Subjected to Alternate Loading.	23	89	1963	110
*2325	Y. Suenaga R. Sasaki	Experimental Research on Joints of Light Gage Steel.	23	89	1963	111
*2326	J. Sumita S. Igarashi M. Tomoda	Experimental Research of the Haunched Knees in Elasto-Plastic Range.	23	89	1963	114

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2327	# M. Fujimoto, et al.	Experiments on Beam-Column Connections for Steel Pipe Frame.	23	89	1963	130
* 2328	M. Fujimoto K. Abe M. Sato	Stress and Deformation from Local Loading in Pipe Connection (First Report).	23	89	1963	132
* 2329	K. Washio Y. Kosaka H. Kurobane	Truss Joints in Tubular Structures. Part 3 - Effects of Concrete Casted in Chord Members.	23	89	1963	133
* 2330	T. Takeda	Study on Reinforced Concrete Members Subjected to the Alternate Plastic Deformation: Characteristics of Deflection of Reinforced Concrete Frames.	23	89	1963	152
* 2331	H. Muguruma S. Morita T. Kaku	Variation of Flexural Rigidity of Reinforced Concrete Beam with Increasing and Decreasing Loads.	23	89	1963	154
* 2332	M. Yamada	Mehcanical Behaviors of Plastic Hinge in Structural Members (Part 1: Reinforced Concrete Beams. (2).)	23	89	1963	158
* 2333	T. Koh	Experimental Collapse of Power Pole.	23	89	1963	159
* 2334	T. Miyatake	Experimental Studies on the Reinforced Concrete Columns under Combined Loading.	23	89	1963	161
* 2335	H. Umemura A. Ikeda	Study on Improvement of Structural Ability of Reinforced Concrete Construction: Tests on the Beam-Column Connections under Repeated Loading.	23	89	1963	162
* 2336	N. Onitake M. Shimodori M. Ando	An Experimental Study on the Flexural Rigidity of Shear Walls Cracked by Shear, Part 2.	23	89	1963	165
* 2337	S. Mochizuki	Analysis of Reinforced Concrete Walls after the Occurance of Cracks.	23	89	1963	166
* 2338	H.M. Liao	Experimental Studies on Reinforced Concrete Rigid Frame with Masonry Wall.	23	89	1963	167
* 2339	E. Makitani	Photoelastic Investigation of Shear Resistance after Cracking on the Reinforced Concrete Wall.	23	89	1963	168

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2340	M. Kato K. Nakano G. Tozuka	Stress Analysis on Rigid Frames Jointed by Prestressed Concrete (Photo-elasticity.)	23	89	1963	172
* 2341	K. Ishida H. Murahashi	Analysis for Walled Frames with Middle Corridors.	23	103	1964	73
* 2342	T. Koh	Elasto-plastic Analysis of Core-Walls in Tall Buildings.	23	103	1964	74
* 2343	T. Hattori	Automatic Tabulation of Stiffness Matrix for Any Type of Frames.	23	103	1964	75
* 2344	Y. Yokoo M. Wakabayashi C. Matsui	Study of Elasto-plastic Stability of Steel Tall Building Subjected to Vertical and Lateral Load (Part 1).	23	103	1964	76
* 2345	M. Wakabayashi T. Murota	The Elastic Behavior of Tall Frames under Vertical and Horizontal Loading.	23	103	1964	77
* 2346	M. Wakabayashi B. Tsuji	Experimental Studies on Rigid Frames Subjected to Alternate Horizontal Loading. - Report 1.	23	103	1964	78
* 2347	S. Hirokawa	On a Deformation of a Space Frame Being Subjected to Lateral Force.	23	103	1964	79
* 2348	M. Edanaga	A Simplified Proposed Approximate Method for Analyzing the Rectangular Rigid Frame Subjected to Horizontal Load.	23	103	1964	80
* 2349	K. Heki Y. Nakamoto	On the Extended Slope-deflection Method in Consideration of the Shear Deformation of Panel Joint.	23	103	1964	82
* 2350	J. Sakamoto A. Miyamura	Elasto-plastic Behavior of Portal Frames Subjected to Axial and Horizontal Loads. - I.	23	103	1964	83
* 2351	J. Sakamoto A. Miyamura	Elasto-plastic Behavior of Portal Frames Subjected to Axial and Horizontal Loads. - II.	23	103	1964	84
* 2352	T. Kobori K. Mizuhata H. Kumada	Elasto-plastic Analysis of Framed Structures with Diagonal Bracings.	23	103	1964	86

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2353	T. Iwashita	Analysis of Three-Story Wall by a Lattice Analogy.	23	103	1964	87
* 2354	O. Hamada S. Kiyota	Experimental Study on Behavior of Steel Rectangular Frames under Alternated Horizontal Loading. (Part 1).	23	103	1964	94
* 2355	K. Ishida	A Calculation Method of Settlement on Solid Rigid Frames.	23	103	1964	104
* 2356	S. Igarashi N. Taga E. Kawada	Plastic Behaviors of Steel Frames under Vertical and Horizontal Loads.	23	103	1964	210
* 2357	I. Funabashi I. Kobayashi	A Study on Trussed Wall of Buildings - No. 2. Experimental Analysis of Lattice Points of a Truss.	23	103	1964	224
* 2358	# K. Nishino,et al.	On the Rigidity of Beam to Column Connections in Steel Frames Subjected to Horizontal Load.	23	Sup.	1965	183
* 2359	# K. Kono,et al.	Some Effects of Tie Beam in Circular Arch Frames. -Part 1.	23	Sup.	1965	173
* 2360	# T. Kamiya,et al.	On the Analysis of Rigid Frame with Seismic Wall.	23	Sup.	1966	174
* 2361	# M. Suko,et al.	Ultimate Strength of Short Steel Column Subjected to Reciprocal Load.	23	Sup.	1966	281
* 2362	K. Takanashi H. Tanaka	On the Limitation of Width-thickness Ratio in the Plastic Hinges.(Part 4).	23	Sup.	1966	289
* 2363	T. Kato T. Tokuda	Experimental Study of Beam to Column Connection for the Case of Pipe in Use for Column.	23	Sup.	1966	318
* 2364	# M. Fujimoto,et al.	Experimental Research of the H-Section Steel Connections - Part 1. Full Scaled Specimen Test.	23	Sup.	1966	319
* 2365	# M. Fujimoto,et al.	Stress Analysis of Photoelastic Method.	23	Sup.	1966	320
* 2366	Y. Suyenaga T. Shigenobu	Study on Stress Concentration at Beam-Flange Connected Box Column - No. 1	23	Sup.	1966	321
* 2367	# Y. Suyenaga,et al.	Test of Beam-Column Connections of Steel Frames for Tall Multi-Story Frames.	23	Sup.	1966	322
* 2368	H. Tanaka	Limit Analysis of Beam-Column Connections - 1.	23	Sup.	1966	324

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2369	# A. Fukushima, et al.	Limit Analysis of Beam-Column Connections. -2.	23	Sup.	1966	325
* 2370	# E. Hayashi, et al.	Limit Analysis of Beam-Column Connections. -3.	23	Sup.	1966	326
* 2371	# Y. Mitsui, et al.	Experimental Research of Tubular Truss Joints under Repeated Loads - Preliminary Test Report.	23	Sup.	1966	342
* 2372	# T. Togo, et al.	Research on Tubular Truss Joints. -No. 4	23	Sup.	1966	343
* 2373	# S. Aoki, et al.	Experiment of Tie Bar Joint.	23	Sup.	1966	344
* 2374	# M. Mizuno, et al.	Stress Analysis of Steel Pipe Column Connection.	23	Sup.	1966	346
* 2375	Y. Higashi Y. Ohwada	Experimental Studies on Reinforced Concrete Beam-Column Connection Subjected to Lateral Load. (Part 1. Test and Failing Behaviors)	23	157	1969	19
* 2376	K. Moroi	On the Brick	24	67	1892	193
* 2377	H. Aoyama	Strength and Ductility of the Skeleton.	24	1025	1970	468
* 2378	Y. Ohsaki	Estimation of the Final State and Safety Factor.	24	1025	1970	472
* 2379	Y. Niwa W. Koyanagi K. Nakagawa	Failure Processes of Concrete Under Triaxial Compressive Stress.	26	185	1971	31
* 2380	D.S.W. Group	Studies on the Development of Steel Plate Shear Walls.	30	5	1971	33
* 2381	T. Takeda Y. Takemoto K. Yoshioka	Ultimate Strength and Ductility of Reinforced Concrete Columns with Web Reinforcement.	30	5	1971	45
* 2382	T. Takeda Y. Kobatake	Experimental Study on Continuous Seismic Wall (Part 5: Bending and Shear Tests on Continuous Seismic Wall Subjected to Axial Loads.)	30	5	1971	53
* 2383	L.S. Jacobsen	Damping in Composite Structures.	37	II	1960	1029
* 2384	J.G.Bouwkamp J.F.Meehan	Drift Limitations Imposed by Glass.	37	II	1960	1763

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2385	J.G. Bouwkamp	An Investigation for the Earthquake Resistant Design of Large-Size Welded and Bolted Girder to Column Connections.	37	III	1965	IV-90
* 2386	T. Naka B. Kato M. Watabe M. Nakao	Research on the Behavior of Steel Beam-to-Column Connections.	37	IV	1969	B3-1
* 2387	V.V. Bertero	Seismic Behavior of Steel Beam-to-Column Connection Subassemblages.	37	IV	1969	B3-31
* 2388	A. Tsuruta S. Terada	Seismic Moment Resisting Girder Connections to Diagonally Alligned Columns.	37	IV	1969	B3-83
D - 6 - 2 Static Test of Structures						
2389	A. Iguchi B. Mano S. Tanabe	The Report on Tests and Experiments on Material Strength.	1	2	1894	155
2390	A. Iguchi B. Mano S. Tanabe	Second Report on Tests and Experiments on Material Strength.	1	3	1895	15
* 2391	M. Wakabayashi	The Restoring Force Characteristics of Multi-Story Frames.	8	14-2	1965	78
* 2392	M. Wakabayashi B. Tsuji	Experimental Investigation on the Behavior of Frames with and without Bracing under Horizontal Loading.	11	16-2	1967	81
* 2393	M. Wakabayashi T. Nonaka S. Morino	An Experimental Study on the Inelastic Behavior of Steel Frames with a Rectangular Cross-Section Subjected to Vertical and Horizontal Loading.	11	18-3	1968	65
* 2394	M. Wakabayashi T. Murota	An Experimental Study on the Restoring-Force Characteristics of Tall Frames (Part 1).	9	9	1965	317
* 2395	M. Wakabayashi S. Morino	An Experimental Study on the Restoring-Force Characteristics of Tall Frames. (Part 2)	9	10-A	1967	407

8. To assure that the requirements of GDC 4 are satisfied, the APCSB will review the location of structures, systems, and components of the preferred power system to determine the protection provided against dynamic effects, including effects of missiles, pipe whipping, and discharging fluids, that may result from equipment failures and from events and conditions outside the station. This information will be used to determine the possibility of simultaneous loss of both paths of preferred power.

9. To assure that the requirements of GDC 5 are satisfied, the structures, systems, and components of the preferred power systems will be examined to identify any that are shared between units of a multi-unit station. These will be reviewed to ascertain that they are capable of performing all required safety functions in the event of an accident in one unit, with a simultaneous orderly shutdown and cooldown of the remaining units. Review of the design criteria should establish that the capacity and capability of incoming lines, power sources, and transformers for each required circuit have margin to achieve this. Spurious or false accident signals should not overload these circuits. SRP 8.3 further discusses spurious or false accident signal considerations.

10. To assure that the requirements of GDC 13 are satisfied, the preferred power system instrumentation provided to monitor variables and systems over anticipated ranges for normal operation, anticipated abnormal occurrences, and accident conditions should be identified during the electrical schematic and system description review. It should be ascertained that these instruments present status information that can be used to determine the condition of the preferred power system at all times. Review of the electrical schematics should determine that controls (automatic and manual) are provided to maintain these variables and systems within prescribed operating ranges. It should also be determined during the review of the electrical schematics that single failures of these controls and instruments will not violate the requirements of GDC 17.

11. The review of the electrical schematics of the automatic load dispatch system should ascertain that the reactor protection system is designed to prevent any load dispatch system actions that could interfere with safety actions during periods when safety actions are required. The results of analyses of this system should be reviewed to assure that no failure mode of the load dispatch system will cause an incident at the generating station or interfere with any protective action required.

In certain instances, it will be the reviewer's judgement that, for a specific case under review, emphasis should be placed on specific aspects of the design, while other aspects of the design need not receive the same emphasis and in-depth review. Typical reasons for such a non-uniform placement of emphasis are the introduction of new design features or the utilization in the design of design features previously reviewed and found acceptable.

g. During the review of the electrical schematics, it should be determined that loss of standby power will not result in loss of preferred power, loss of one preferred power circuit will not result in loss of the other circuit, and loss of the main generator will not result in loss of either preferred power circuit.

3. To assure that the requirements of GDC 18 and 21, and Regulatory Guide 1.22 are satisfied, the electrical schematics should be examined to determine that the design includes provisions for testing the transfer of power to the safety-related distribution system from the main generator supply to the preferred power system, or to any other supply. It should also be established that the circuitry required to perform these transfer functions has the capability of being tested during plant operation.

4. To assure that the requirements of GDC 33, 34, 35, 38, 41 and 44 are satisfied, the electrical schematics of the systems required for reactor coolant makeup, residual heat removal, emergency core cooling, containment heat removal, containment atmosphere cleanup, and cooling water should be examined to assure that the circuits from the preferred power system can supply these systems assuming a single failure in these systems. Each of the circuits should be physically separate and independent of the other. If the minimum design required by GDC 17 is provided, the immediately available preferred circuit must be made available to the redundant portions of these systems.

5. To assure that the requirements of GDC 1 are satisfied, it should be determined that the design criteria and quality group classifications for all equipment conform to current codes and standards. The QAB will determine the adequacy of the quality assurance program.

6. To assure that the requirements (excluding seismic) of GDC 2 are satisfied, the QAB will provide information on the maximum probable flood, wave runup, hurricanes, high and low atmospheric temperatures, and rain and snow conditions. This information will be considered during the review to assure that the design minimizes the effects of these conditions. Items such as switchyard and transformer location could be affected by the maximum probable flood, wave runup, or hurricane conditions. Transmission lines and the ability to restore a preferred circuit could be affected by hurricanes, high or low temperatures, or rain and snow conditions.

7. To assure that the requirements of GDC 3 are satisfied, it should be determined that the equipment of the preferred power system is designed and located to minimize, consistent with other safety requirements, the probability and effects of fires and explosions. The review of the design criteria for the equipment should ascertain this. The APCSB will review the fire detection and fire fighting systems in the preferred power system areas to assure that adverse effects of fire are minimized. They will also examine ruptures of the fire fighting system to assure that they do not degrade the safety capability of structures, systems, and components to a condition where essential functions are lost.

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2396	T. Kobori R. Minai T. Fujiwara T. Hisatoku	An Experimental Study on the Restoring Force Characteristics of Portal Frames.	9	11-A	1968	421
* 2397	M. Wakabayashi K. Minami I. Mitani C. Matsui	Inelastic Behavior of Full Scale Steel Frames.	9	13-A	1970	329
* 2398	Y. Yokoo K. Yamagata	A Study on the Differential Settlement of Structures	10		1956	93
* 2399	M. Makino	Elasto-plastic Deformation of Multi-story Frames under Horizontal Loading.	13	46	1965	63
2400	T. Kono	Experimental Study on the Strength and Rigidity of Connection of Wooden Columns and Beams.	20	1	1937	121
2401	T. Kono	Experimental Study on Shear Resistance of Wooden Walls.	20	1	1937	132
2402	H. Tanabe	Study on the Earthquake Resistant Wooden Walls (The First Report).	20	1	1937	137
2403	H. Tanabe	Study on the Earthquake Resistant Wooden Walls (The Second Report).	20	1	1937	148
2404	S. Ban	Change in the Elasticity of a Reinforced Concrete Structure with its Age.	20	1	1937	172
2405	H. Tanabe	Study on the Earthquake Resistant Wooden Walls (The Third Report).	20	2	1942	77
2406	H. Tanabe	Study on the Earthquake Resistant Wooden Walls (The Fourth Report).	20	2	1942	86
2407	H. Tanabe	Study on the Earthquake Resistant Wooden Walls (The Fifth Report).	20	2	1942	97
2408	S. Ban	The Influence of Openings on the Lateral Load-Carrying Capacity of Earthquake Resistant Walls.	20	2	1942	127

No.	Author(s)	Title	Source	No. or Vol.	Date	Page
2409	T. Hisada	The Lumber Strength under Short Period Vibration and the Effect of Defective Cross-section on It.	22	1	1949	70
2410	T. Hisada	The Lumber Strength under Short Period Vibration and the Effect of Defective Cross-section on It.	22	2	1949	25
2411	M. Kanno T. Hisada	Report on Proof-Load Testing of the Wooden Elementary School Building.	22	3	1949	63
2412	Y. Sakai	Study on Elasto-Plasticity and Vibrational Strength of Wooden Material.	22	7	1950	5
2413	H. Futami M. Fujimoto	Photo-Elasticity Experiment on the Wall Stress.	22	12	1951	93
2414	T. Hisada	Study on the Bearing Strength of the Wooden Wall.	22	12	1951	137
2415	Y. Sakai S. Iida	Study in the Vibrational Strength and Plastic Flow of the Wood. (The Fourth Report).	22	12	1951	149
2416	H. Futami M. Fujimoto	Photo-Elasticity Experiment on the Wall Stress. (The Second Report).	22	18	1952	59
2417	Y. Tsuboi M. Tomii	On the Shear Resistance of Reinforced Concrete Plate. (5) The Report on the Test Performed Under Pure Shear.	22	18	1952	93
2418	Y. Sakai M. Kawamura	Study on the Vibrational Strength and Plastic Flow of the Wood. (The Fifth Report); Particularly on the Evaluation of Failure Load and the Maximum Deflection.	22	20	1952	61
2419	H. Sugiyama	The Experimental Study on the Vibrational Strength of the Wooden Material. (Fifth Report).	22	20	1952	63
2420	T. Hisada	The Load Carrying Capacity of the Wall with Wooden Frames.	22	20	1952	133
2421	G. Matsui	The Report on the Photo-Elasticity Experiment of the Opening Wall, Reinforced by a Rigid Frame Structure, under Shearing Force.	22	24	1953	223

No.	Author	Title	Source	No. or Vol.	Date	Page
2422	S. Takenouchi K. Nakagawa	Bearing Test of the Reinforced Concrete Block Building. (In Case of the N Type Light Block Structure)	22	27	1954	187
2423	Y. Tsuboi K. Nakagawa S. Takenouchi	The Experiment on the Bearing Behavior of RC Rigid Frame Structures.	22	29	1954	133
2424	M. Masuda M. Aoki M. Ishikawa	On the Deformation Measurement of Rigid Frame Structures Using Tiltmeters.	22	29	1954	155
* 2425	T. Taniguchi Y. Nomura	Hysteresis of Concrete under Repeated Shearing or Compressive Loading.	23	1	1936	29
* 2426	H. Tanabe H. Kano, et al.	Tests on the Rigidity of Connections of Beams and Columns. (Study on Earthquake Resistant Timber Construction. Part 3)	23	1	1936	129
* 2427	H. Tanabe T. Katuta	Tests on Timber Frames under Alternate Horizontal Load. (Study on Earthquake Resistant Timber Construction,Part 5).	23	5	1937	35
* 2428	T. Kono	Experiments of Shearing Resistance of Wooden Wall.	23	8	1938	24
* 2429	H. Tanabe T. Katuta K. Goto	Tests on Timber Frames with Wall (Japanese System) under Alternate Horizontal Load. (Study on Earthquake Resistant Timber Construction. Part 6)	23	9	1938	130
* 2430	H. Tanabe K. Goto M. Kikuta	Tests on Timber Frames with Wall (European System) under Alternate Horizontal Load. (Study on Earthquake Resistant Timber Construction. Part 7)	23	13	1939	210
* 2431	H. Yosida	A Consideration on the Testing Method of the So-called Quake-Resisting Wall.	23	17	1940	327
* 2432	K. Muto H. Umemura	On Deflection of Reinforced Concrete Members under Large Deformations.	23	26	1942	156
* 2433	S. Ban	Experimental Study on the Seismic Resistance of Walls with Openings..	23	30	1943	149

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2434	S. Ban S. Okushima K. Hukusima	A Report on Statical Horizontal Load Tests of Reinforced Concrete Buildings.	23	30	1943	161
* 2435	H. Futami M. Fujimoto	Experimental Study on Lateral Force Distribution in Walls by Means of Photoelasticity.	23	47	1953	62
* 2436	Y. Tsuboi M. Tomii	Study on Shearing Resistance of Reinforced Concrete Frame and Reinforcing Effect of Joint.	23	50	1955	55
* 2437	T. Naito M. Takeuchi Y. Tanaka M. Handa	Experimental Research on Vertically and Horizontally Loaded Cylindrical Shells.	23	57-1	1957	389
* 2438	Y. Tsuboi M. Kawaguchi	An Experimental Study on Cylindrical Concrete Shells Subjected to Horizontal Loads (2).	23	57-1	1957	393
* 2439	M. Takeuchi M. Hara Y. Tanaka	Experimental Research on the Stiffness of Building Frames as Influenced by Seismic Wall Location and Degree of Foundation Fixity.	23	57-1	1957	417
* 2440	S. Tani K. Horikoshi	Arrangement of Bracings in Frame and Its Effect on Stiffness (2).	23	57-1	1957	421
* 2441	T. Naka M. Fujimoto T. Kato	Experimental Research of the Braced Light-Gauge-Steel Structure (Part 1) - Stress Deformation of Braced Frameworks.	23	57-1	1957	505
* 2442	T. Naka M. Fujimoto T. Kato	Experimental Research of the Braced Light-Gauge-Steel Structure (No. 2) - Local Deformation of the Column to Bracing Connection and Its Strength.	23	57-1	1957	509
* 2443	T. Naka T. Hisada M. Wakabayashi T. Kato Y. Suenaga	Investigation of the Ultimate Strength of Steel Frames (No.1) - Model Tests of Skeletons of Yakumo Primary School, Frames without Bracings.	23	57-1	1957	513
* 2444	T. Naka T. Hisada M. Wakabayashi T. Kato Y. Suenaga	Investigation of the Ultimate Strength of Steel Frames (No.2) - Model Tests of Skeletons of Yakumo Primary School, Frames with Bracings.	23	57-1	1957	517

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2445	M. Kawamura	Plastic Rigidity of Reinforced Concrete Frame.	23	57-1	1957	561
* 2446	Y. Murata M. Katayama H. Umemura	Plastic Behavior of Reinforced Concrete Frames: Experiments on the One-Storied Two-Span-Frames under Horizontal Loading.	23	57-1	1957	565
* 2447	G. Matsui S. Mochizuki	Experiments of Reinforced Concrete Walls under Repeated Shear Load.	23	57-1	1957	593
* 2448	Kanto District Construction Bureau & Building Research Institute, Ministry of Construction; Taisei Construction Co. Ltd.	Loading Tests of Existing Reinforced Concrete Frames (Part 1) - Outline of Tests.	23	57-1	1957	601
* 2449	Kanto District Construction Bureau & Building Research Institute, Ministry of Construction; Taisei Construction Co. Ltd.	Loading Tests of Existing Reinforced Concrete Frames (Part 2) -Results of Tests and Their Analysis.	23	57-1	1957	605
* 2450	M. Edanaga	The Effect of Opening upon the Rigidity of Multistoried Quake-Resisting Wall.	23	59	1958	42
* 2451	M. Takeuchi M. Hara Y. Tanaka	Experimental Study of the Stiffness of the Structural Frame Influenced by the Distribution of Aseismic Walls.	23	60-1	1958	313
* 2452	M. Tomii	Experimental Studies on Effect of Diagonal Loads to Reinforced Concrete Plates Having Frame at Boundary. Shearing Resistance of Reinforced Concrete Bracing Walls - Part 3.	23	60-2	1958	389
* 2453	K. Washio Y. Gyoten	Study on the Box-type Structure. -Part 8.	23	60-1	1958	413
* 2454	W. Kato J. Motooka H. Yoshida	Experimental Researches on Collapse Behaviors of Horizontally Loaded Cylindrical Long Shell Roofs.	23	60-1	1952	461

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2455	T. Hisada H. Sugiyama G. Matsuno	An Experimental Study on Bearing Strength of Bolted Joint.	23	60-1	1958	469
* 2456	K. Kimura	Investigation of the Shearing Strength of Reinforced Concrete Block Walls with Face Shell Bending Joint.	23	60-1	1958	477
* 2457	Y. Tuboi M. Wakabayashi Y. Suenaga	Experimental Studies on Reinforced Concrete Column Subjected to Axial and Shear Force.	23	60-1	1958	613
* 2458	Y. Yokoo K. Yamagata	Limit Analysis of Space Frames Subjected to Lateral Force.	23	61	1959	35
* 2459	S. Tani J. Sakurai	Experimental Studies on Effectiveness of Bracing Arrangement in Imparting Stiffness against Lateral Forces by Plastic Model.	23	63-1	1959	389
* 2460	S. Tani K. Kinoshita	Experimental Studies on Effectiveness of Seismic Resisting Element Arrangement in Imparting Stiffness against Lateral Forces by Reinforced Concrete Model.	23	63-1	1959	393
* 2461	S. Kokushiyo M. Makino M. Izumi	Effects of Bracing and Finishing on Rigidity of Light Gage Steel Frames.	23	63-1	1959	537
* 2462	M. Matsuura	First Report on the Concentrated Load Test for the Reinforced Concrete Rahmen in Full Size.	23	63-1	1959	605
* 2463	N. Ando A. Ikeda	Experimental Study on Radially Placed Reinforced Concrete Aseismic Walls.	23	63-1	1959	609
* 2464	H. Aoyama	Influence of Initial Deformation on the Plastic Behavior of Reinforced Concrete Frame.	23	63-1	1959	613
* 2465	S. Mochizuki	On the Relation between Restriction and Strength of the Reinforced Concrete Walls.	23	63-1	1959	617
* 2466	M. Tomii	Cracked Stress of Reinforced Concrete Shear Walls.	23	63-1	1959	621

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2467	Y. Tsuboi H. Yashiro	Experimental Studies on Joint of Corrugated Reinforced Concrete Slab Structures: Study on Joint of Reinforced Concrete Frame, Part 17.	23	63-1	1959	629
* 2468	S. Tani J. Sakurai	Experimental Studies on Effectiveness of Bracing Arrangement in Imparting Stiffness against Lateral Forces by Plastics Model: on Unsymmetrical Arrangement.	23	66-1	1960	293
* 2469	S. Mochizuki	Experimental Study of Strength of Walls under Combined Tensile and Compressive Stresses.	23	66-1	1960	297
* 2470	M. Tomii S. Miyata	Outline of Shear Tests Concerning Quake Resisting Walls Having Various Openings: Study on Shearing Resistance of Quake Resisting Walls Having Various Openings, No. 1	23	66-1	1960	301
* 2471	M. Tomii S. Miyata	Relation between Shearing Force and Shearing Deformation Concerging Quake Resisting Walls Having Various Openings: Study on Shearing Resistance of Quake Resisting Walls Having Various Openings. No. 2	23	66-1	1960	305
* 2472	K. Kimura	Shearing Strength Properties for Reinforced Ceramic Block Masonry Constructions.	23	66-1	1960	421
* 2473	S. Asano	Study on the Ultimate Strength of the Reinforced Concrete Walls. Report 1.	23	66-1	1960	429
* 2474	H. Takeda	Alternate Loading Tests on Concrete Beams Reinforced with High-strength Twisted Steel Bars.	23	66-1	1960	469
* 2475	S. Tani K. Kinoshita	Experimental Study on Aseismic Walls of Steel Framed Reinforced Concrete Structures.	23	66-1	1960	497
* 2476	K. Takeyama	Experimental Studies on the Mechanical Properties of L.G.S. Frames, with Some Walls, Subjected to Horizontal Forces.	23	66-1	1960	529
* 2477	M. Tomii	Shearing Force Ratio Concerning Quake Resisting Walls Having Various Openings: Study on Shearing Resistance of Quake Resisting Walls Having Various Openings. No.3	23	67	1961	23

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2478	M. Tomii	Modes of Failure and Ultimate Shearing Loads Concerning Quake Resisting Walls Having Various Openings: Study on Shearing Resistance of Quake Resisting Walls Having Various Openings, No. 4.	23	68	1961	47
* 2479	Y. Sakai	Research on Plastic Bend - 4th Report.	23	69-1	1961	305
* 2480	S. Tani T. Miyamoto	Experimental Studies on the Aseismic Wall in Steel-Reinforced Concrete Structures.	23	69-1	1961	449
* 2481	M. Tomii	Shearing Deformation at Maximum Shearing Load Concerning Quake Resisting Walls without Opening.	23	69-1	1961	461
* 2482	H. Umemura E. Suzuki S. Yajima	Experimental Study on the Light Weight Concrete Asesimic Walls.	23	69-1	1961	469
* 2483	Y. Tsuboi H. Yashiro T. Fujinuma	Experimental Study on Reinforced Concrete Aseismic	23	69-1	1961	473
* 2484	T. Naka H.M. Liao et al.	Experimental Study on the Strength and the Rigidity of Reinforced Concrete Aseismic Walls with Opening (Part 1. Case of One Side Loading.)	23	69-1	1961	477
* 2485	H. Aoyama M. Hirosawa T. Shimazu	Experimental Studies on Reinforced Concrete Walled Frames.	23	69-1	1961	481
* 2486	T. Takeda	Alternate Loading Tests on Concrete Beams Reinforced with High-strength Twisted Steel Bars (II)	23	69-1	1961	517
* 2487	T. Miyatake	A Study on Collapse of Reinforced Concrete Columns under Lateral and Axial Loads - Experimental Study, 1.	23	69-1	1961	549
* 2488	T. Sinagawa N. Nakagawa	Experimental Study on Bearing Strength of the Building Constructed by Large Precast Concrete Slabs.	23	69-1	1961	565
* 2489	T. Tsukamoto M. Kawamura	Test of Rigid Frame Structures Composed of Prestressed Concrete Beams and Conventional Reinforced Concrete Columns.	23	69-1	1961	589

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2490	# T. Naka H. Saito T. Umezawa, et al.	Experimental Study on Steel Framed Concrete Structures.	23	69-1	1961	613
* 2491	S. Takada	Experimental Tests on a Composite Joint of Beams and Columns.	23	69-1	1961	617
* 2492	M. Yamada	Experimental Study on the Behavior of Plastic Hinges in Composite Beams.	23	69-1	1961	621
* 2493	K. Kimura	Experiment Study on Strength of Reinforced Oyaishi-stone Masonry Walls.	23	69-1	1961	641
* 2494	H. Umemura S. Masaki K. Shinohara R. Iijima	Elasticity and Plasticity of Rigid Frame Subjected to Horizontal Load (Report 1) - on Fundamental Experiments.	23	69-1	1961	693
* 2495	S. Masaki	Elasticity and Plasticity of Rigid Frame Subjected to Horizontal Load (Part 2) - Experiments on the Oblique Column Frame and the Rectangular One.	23	69-1	1961	697
* 2496	S. Yoshino K. Wakabayashi M. Kawaji	Tests on Steel Tubular Construction.	23	69-1	1961	749
* 2497	S. Yoshino M. Kawaji	Report of some Experiments on Prefabricated L.G.S. Construction House.	23	69-1	1961	753
* 2498	M. Tomii	Shearing Deformation at Maximum Shearing Load Concerning Quake Resisting Walls with Various Openings.	23	74	1962	17
* 2499	T. Shiga J. Ogawa	Ultimate Deflection of Syoji Due to Horizontal Force.	23	76	1962	91
* 2500	M. Hirosawa	Ultimate Strength of Reinforced Concrete Walled Frames - Experimental Studies on Reinforced Concrete Walled Frames. No.2.	23	76	1962	109
* 2501	N. Onitake M. Shimodori M. Ando	An Experimental Study on the Flexural Rigidity of Shear Walls Cracked by Shear.	23	76	1962	110

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2502	Research Committee of Aseismic Wall with Openings, Takeo Naka H.M. Liao, et al.	Experimental Study on the Strength and the Stiffness of Reinforced Concrete Aseismic Walls with Opening (Part 2. Case of Alternate Loading)	23	76	1962	114
* 2503	K. Kimura	Shearing Strength of Masonry Wall Surrounded by Reinforced Concrete Frame.	23	76	1962	124
* 2504	Y. Tuboi Y. Suenaga	Experimental Study on the Joint of Precast Concrete Members. Part 1, Fundamental Study on Failure of Plain Concrete and Reinforced Concrete under Combined Stress.	23	76	1962	126
* 2505 #	N. Nakagawa T. Saito, et al.	Experimental Studies on 4-storied "Tilt-up" Buildings. Part I. (Statical Lateral Load Test)	23	76	1962	129
* 2506	K. Ban K. Takeyama Y. Yonemoto	Experimental Studies on the Mechanical Properties of Walls, Built up with L.G.S. Frames and Reinforced Concrete Blocks.	23	76	1962	131
* 2507	K. Ban K. Takeyama Y. Yonemoto	Experimental Studied on the Mechanical Properties of Walls, Built up with L.G.S. Frames and Reinforced Mortars.	23	76	1962	132
* 2508	S. Tani K. Saimi	Steel Framed Reinforced Concrete Structure, Utilized Steel Pipe Column - Experimental Studies of the Joint (Series I).	23	76	1962	135
* 2509	N. Onitake T. Kurino	An Experimental Study on the Frames with Double Bracings of Light Gauge Steel.	23	76	1962	142
* 2510	T. Naka T. Kato M. Yuasa	Study on Shear Wall in Light Gage Steel Structure.	23	76	1962	143
* 2511	Y. Uchida H. Hara, K. Go	Experimental Research on the Shearing Surface of Lightweight Panel.	23	89	1963	96
* 2512	N. Onitake M. Ando T. Kurino	An Experimental Study on the Frames with Double Bracings of Light Gauge Steel. (Part 2)	23	89	1963	113

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2513	S. Tani S. Nomura K. Saimi	Experimental Study of Prefabricated Aseismic Wall.	23	89	1963	139
* 2514	M. Tomii	Tests of Quake Resisting Walls by Shear Force Distributed along the Boundary.	23	89	1963	164
* 2515	K. Kimura	Lateral Force Test of Construction for Three Stories School-House, Applied Bearing Walls to the Frame Works.	23	89	1963	174
* 2516	H. Umemura Y. Yamamoto	Plastic Displacement of the Actual Reinforced Concrete Building.	23	89	1963	175
* 2517	S. Masaki K. Shinohara	Experimental Study on Steel Framed Reinforced Concrete Structure with Concrete Casted Square Steel Pipe.	23	89	1963	179
* 2518	T. Naka T. Kato A. Tanaka	Experimental Study on Full-Scale Steel-Reinforced Concrete Beam-to-Column Connection Affected by Horizontal Forces.	23	89	1963	180
* 2519	M. Wakabayashi Y. Suenaga	Experimental Studies of the Joint on Steel Concrete Members with H-Shape Steel, Part 1.	23	89	1963	181
* 2520	T. Odaka F. Horie K. Saito	Study on the Restoring Force Characteristics in Structural Frames.	23	89	1963	184
* 2521	M. Hirosawa	Ultimate Strength and Lowering of Mean Rigidity of Walled Frames with Axial Load - Experimental Study of Walled Frame. No. 4.	23	89	1963	216
* 2522	H. Umemura Y. Matsushima	Ultimate Strength of Actual Buildings.	23	89	1963	238
* 2523	H. Umemura Y. Ohsawa C. Ueda	Horizontal Loading and Free Vibration Test on the Buildings of Hamamatsu Hospital J.N.R., Part 1.	23	89	1963	243
* 2524	H. Umemura Y. Ohsawa M. Ihara	Horizontal Loading and Free Vibration Test on the Building of Hamamatsu Hospital J.N.R., Part 2.	23	89	1963	244

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2525	H. Umemura Y. Osawa R. Hirai	Horizontal Loading and Free Vibration Test on the Building of Hamamatsu Hospital J.N.R., Part 3.	23	89	1963	245
* 2526	M. Kondo A. Yamane R. Tsukuda	Lateral Static Load Test of a Four-Storied Prefabricated Apartment House.	23	98	1964	1
* 2527	R. Tanabashi T. Nakamura	On the Behavior of a Multi-Story Steel Frame Subjected to Earthquakes. -III. The Ultimate States.	23	103	1964	124
* 2528	H. Egami	A Proposed Structural Form for Multistory Building and Its Analysis - Torsional Analysis on Multistory Building, 112.	23	103	1964	130
* 2529	H.M. Liao	Ultimate Strength of Reinforced Concrete Shear Walls - Shear Wall with Opening.	23	103	1964	174
* 2530	N. Onitake M. Shimodori M. Ando	An Experimental Study on the Flexual Rigidity of Shear Walls Cracked by Shear.	23	103	1964	175
* 2531	I. Funahashi K. Kinoshita T. Aramaki	Lateral Loading Test on the Building of Reader's Digest.	23	103	1964	192
* 2532	T. Iwashita	Analysis on the Aseismic Wall by a Lattice Analogy (Part 1) The Accuracy of Solution and Analysis of Three-Story Free Standing Aseismic Wall.	23	105	1964	14
* 2533	T. Odaka K. Saito	Experimental Study on the Restoring Force Characteristics in the Reinforced Concrete Structural Portal Frames.	23	106	1964	1
* 2534 #	S. Tsuzuki, et al.	An Experimental Study for the Portal Frames in Consideration of Shear Deformation of Joints.	23	Sup.	1965	181
* 2535 #	S. Nomura, et al.	Experimental Study on Ductibility and Damping Factor of Aseismic Elements.	23	Sup.	1965	190
* 2536	S. Kuroda S. Ishii	Example of Horizontal Loading Test of Frame.	23	Sup.	1965	202

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2537	# M. Hirosawa,et al.	Experimental Study of an Actual Six-Story Reinforced Concrete Frame under Horizontal Load - Part 1: Outline of the Experiment.	23	Sup.	1965	203
* 2538	# M. Asakawa,et al.	Experimental Study of an Actual Six-Story Reinforced Concrete Frame under Horizontal Load - Part 2: Elastic Stress and Ultimate Strength.	23	Sup.	1965	204
* 2539	# Y. Matsuzaki,et al.	Experimental Study of an Actual Six-Story Reinforced Concrete Frame under Horizontal Load - Part 3: Elastic and Plastic Deformation.	23	Sup.	1965	205
* 2540	# K. Ohtsuki, et al.	Experiments on Reinforced Concrete Frames.	23	Sup.	1965	217
* 2541	S. Kawamata Y. Tsuboi	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear Wall Structures - No. 2. Elastic Tests by Acrylic Resin Models.	23	Sup.	1965	226
* 2542	G. Matsui Y. Tsuboi S. Nakayama	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear Wall Structures. No. 4. A Two Dimensional Photoelastic Method.	23	Sup.	1965	228
* 2543	Y. Suenaga,et al.	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear Wall Structures - No. 5. Examination on Strength and Rigidity of Unit Main Wall under Combined Stresses M.N.Q.	23	Sup.	1965	229
* 2544	H. Yashiro Y. Tsuboi	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear Wall Structures - No. 6. Experimental Study on the Design of the Joints.	23	Sup.	1965	230
* 2545	M. Tomii Y. Tsuboi I. Tokuhiro	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear Wall Structures - No. 7 . Outline on Shear Tests of Semi-Full-Scale Reinforced Concrete Wall Constructions.	23	Sup.	1965	231
* 2546	I. Tokuhiro Y. Tsuboi M. Tomii	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear Wall Structures - No. 8. Studies in Shear Tests on Semi-Full-Scale Reinforced Concrete Wall Constructions.	23	Sup.	1965	232

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2547	T. Shinogi T. Takeda	Full Size Test on the Assembled Frame of Reinforced Concrete.	23	Sup.	1965	263
* 2548	# T. Nakamura, et al.	On Plastic Model Test. Report 1.	23	Sup.	1965	266
* 2549	M. Wakabayashi T. Murota	An Experimental Study on the Restoring Force Characteristics of Tall Frames under Vertical and Horizontal Loading.	23	Sup.	1965	308
* 2550	# J. Sakamoto, et al.	The Elasto-plastic Analysis of Steel Frame. -I	23	Sup.	1965	311
* 2551	A. Miyamura, et al.	The Elasto-plastic Analysis of Steel Frame. -II	23	Sup.	1965	312
* 2552	N. Taga, et al.	Plastic Behaviors the Steel Frames under Cyclic Loadings.	23	Sup.	1965	320
* 2553	B. Tsuji M. Wakabayashi	Experimental Studies on Rigid Frames Subjected to Alternate Horizontal Loading. -Report 2.	23	Sup.	1965	321
* 2554	K. Ito	A Study on Maximum Story Displacement of One Storied Steel Structures and Requisite Faculty of Deformation for Panels.	23	Sup.	1965	322
* 2555	# D. Hamada, et al.	Experimental Study on Behavior of Steel Rectangular Frames under Alternate Horizontal Loading. -2	23	Sup.	1965	323
* 2556	# T. Namba, et al.	Experiment on the Pre-Fabricated Rigid Frames.	23	Sup.	1965	326
* 2557	# N. Hayashi, et al.	On Twisting Tests of a Truss Arm of the Transmission Tower.	23	Sup.	1965	328
* 2558	# K. Suzuki, et al.	Results on the Experimental Study of Kyoto Tower Using Steel Model.	23	Sup.	1965	330
* 2559	H. Oka H. Aoyama	Study on the Structure of High-Rise Reinforced Concrete Building (Test of Steel and Reinforced Concrete Frames and Shear Walls with Braces Using Artificial Lightweight Aggregate.)	23	119	1966	10
* 2560	S. Igarashi N. Taga	Hysteretic Characteristics and Structural Damping of Steel Structures under Alternate Lateral Loading.	23	120	1966	15

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2561	T. Odaka K. Saito	Experimental Study on the Restoring Force Characteristics in the Reinforced Concrete Structural Portal Frames.	23	122	1966	9
* 2562	S. Igarashi N. Taga S. Takada Y. Koyanaga	Plastic Behavior of Steel Frames under Cyclic Loadings.	23	130	1966	8
* 2563	# Y. Sato, et al.	Restoring Force Characteristics of Aseismic Elements: Experimental Study 1.	23	Sup.	1966	203
* 2564	# N. Ohmori, et al.	Studies on Reinforced Concrete Slit Walls.	23	Sup.	1966	204
* 2565	# T. Arakawa, et al	Stress Distribution in Reinforced Concrete Walls under Shearing Force.	23	Sup.	1966	205
* 2566	T. Endo	Study on the Reinforced Concrete Frame Subjected to Lateral Force - 2.	23	Sup.	1966	206
* 2567	K. Kimura	Strength for Combined Structures Constructed with R.C. Frame and Masonry Walls.	23	Sup.	1966	207
* 2568	T. Ooi M. Oku shima	An Experimental Study on Light Weight Aggregate Concrete Shear Walls.	23	Sup.	1966	209
* 2569	H. Kawamura M. Yamada	Study on the Elasto-Plastic Flexural Behavior of Reinforced Concrete Members Subjected to Axial Load.- Part I. Hysteresis Loop Characteristics.	23	Sup.	1966	231
* 2570	M. Yamada H. Kawamura S. Furui	Study on the Elasto-Plastic Flexural Behaviors of Reinforced Concrete Members Subjected to Axial Load - Part II. Fatigue Characteristics.	23	Sup.	1966	232
* 2571	J. Motooka	An Experimental Study of Compression Zone of Plastic Hinge in Reinforced Concrete.	23	Sup.	1966	233
* 2572	# K. Ohtuki, et al.	Experiment on Reinforced Concrete Connection Panels.	23	Sup.	1966	234
* 2573	# Y. Ohwada, et al.	Experimental Studies on Reinforced Concrete Beam - Column Connection - Part 4.	23	Sup.	1966	235

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2574	# N. Taga, et al.	Plastic Behavior of Steel Frames under Cyclic Loading.	23	Sup.	1966	307
* 2575	B. Tsuji M. Wakabayashi	Experimental Studies on Rigid Frames Subjected to Alternate Horizontal Loading - Report 3.	23	Sup.	1966	308
* 2576	T. Hirano K. Hioki	Experimental Study of Steel Frames Subjected to Lateral Forces.	23	Sup.	1966	311
* 2577	S. Morino M. Wakabayashi	An Experimental Study on the Restoring Force Characteristics of Tall Frames under Vertical and Horizontal Loading-Report 2.	23	Sup.	1966	312
* 2578	# Y. Nagai, et al.	Photoelastic Investigation of the Stresses in Panel Zone.	23	Sup.	1966	323
* 2579	# T. Nagasaka, et al.	An Experimental Study on Damping Characteristics of Sand.	23	Sup.	1967	176
* 2580	# Y. Sugimoto, et al.	Experimental Study on a Frame of the Former Osaka Central Telegraph Office Building - Part 1. Horizontal Loading.	23	Sup.	1967	208
* 2581	# S. Bessho, et al.	Load Test of Structural Frame of Multi-Story Prefab. House - 7S. Model.	23	Sup.	1967	211
* 2582	# H. Anraku, et al.	Vibration and Failure Tests of Old Tokyo Kaijo Building - No. 7. Static Loading Test on Main Beams.	23	Sup.	1967	371
* 2583	# K. Ohno, et al.	Some Aspects of Shear Failure of R.C. Columns Damaged by the Tokachi-oki Earthquake of 1968.	23	168	1970	31
* 2584	Y. Azuma M. Ohkubo H. Edo	Cracks and Statical Hysteresis -Loops of Reinforced Concrete Frames with Spandrel - Walls Cast Simultaneously.	23	169	1970	1
* 2585	H. Aoyama S. Sugano S. Nakata	Vibration and Static Loading Test of Hachinohe College. No. 2: Static Loading Tests.	23	169	1970	33
* 2586	M. Yamada	Shear Explosion of Reinforced Concrete Columns: As the Research Documents for the Analysis of Destroyed Reinforced Concrete Buildings at the Tokachi-oki Earthquake.	23	170	1970	19

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2587	R. Tanabashi Y. Yokoo T. Nakamura,el al.	Load-Deflection Behaviors and Plastic Fatigue of Wide-Flange Beams Subjected to Alternating Plastic Bending - Part 1: Experimental Investigation.	23	175	1970	17
* 2588 #	R. Tanabashi Y. Yokoo T. Nakamura,et al.	Load-Deflection Behaviors and Plastic Fatigue of Wide-Flange Beam Subjected to Alternating Plastic Bending (Part II).	23	176	1970	25
* 2589	R. Tanabashi Y. Yokoo N. Nakamura	Load-Deflection Behaviors and Plastic Fatigue of Wide-Flange Beams Subjected to Alternating Plastic Bending - Part III:Steady - State Theory.	23	177	1970	35
* 2590	H. Tanabe C. Katsuta T. Azuma	Study on Wall for Earthquake Bracing of Buildings. (First Report).	24	569	1933	241
* 2591	H. Tanabe C. Katta T. Azuma	Study on Wall for Earthquake Bracing of Building. (Second Report).	24	584	1934	306
* 2592	H. Tanabe C. Katsuta T. Azuma	Study on Wall for Earthquake Bracing of Buildings. (4th Report).	24	598	1935	326
* 2593	M. Yamada H. Kawamura	Strength and Toughness of the Structure.	24	1025	1970	463
* 2594	T. Okada	Ductility of the Building.	24	1025	1970	466
2595	M. Tomii	A Series of Studies on Shear Resistance of the Earthquake Resistant Wall.	24	1040	1971	630
* 2596	S. Kokusho	The Yield Hinge of Reinforced Concrete Construction (1).	25	159	1964	47
* 2597	A. Ikeda	Load-Deflection Characteristics of Beams and Beam-Column Connections in Reinforced Concrete (2).	25	160	1964	71
* 2598	M. Makino	Structural Strength of Prefabricated Wooden Houses Consisting of Laminated Timber.	25	162	1965	47
* 2599	M. Hirosawa	The Process of Breaking of a Six-Storied Reinforced Concrete Building Subjected to Horizontal Force. (1).	25	164	1965	53

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2600	M. Hirosawa	The Process of Breaking of a Six Storied Reinforced Concrete Building Subjected to Horizontal Force (2).	25	165	1965	107
* 2601	M.Hirosawa	The Process of Breaking of a Six-Storied Reinforced Concrete Building Subjected to Horizontal Force. (3).	25	166	1965	87
* 2602	M. Hirosawa	The Process of Breaking of a Six-Storied Reinforced Concrete Building Subjected to Horizontal Force. (4).	25	167	1965	125
* 2603	M. Hirosawa	The Process of Breaking of a Six-Storied Reinforced Concrete Building Sujected to Horizontal Force. (5).	25	168	1965	123
* 2604	Y. Kojima T. Takeda	Experimental Study on Continuous Aseismic Wall. (Part 3) - Bending and Shear Tests on Continuous Aseismic Wall Subjected to Eccentric Support.	30	3	1969	22
2605	K. Kimura K. Toyama S. Terauchi M. Kobayashi H. Hatano T. Saheki T. Koyama	Full-scale Test of the Steel Frame of the World Trade Center Building.	31	18	1969	293
2606	K. Kimura K. Toyama S. Terauchi M. Kobayashi H. Hatano T. Saheki T. Koyama	Full-scale Test of PC Curtain Wall to be used for the World Trade Center Building.	31	18	1969	309
2607	K. Kimura K. Toyama S. Terauchi M. Kobayashi H. Hatano T. Saheki T. Koyama	Full-scale Test of the Metal Curtain Wall of the World Trade Center Building.	31	18	1969	321
* 2608	M. Sugita	Reports of Examination Tests for the Prefabrication of the Multi-Storied Apartment House-Type KS-1; Part-3. Lateral Loading Tests for Full-Sized Precast Concrete Aseismic Walls.	32	16	1970	54

No.	Author	Title	Source	No. or Vol.	Date	Page
*2609	J. Takeda H. Tachikawa	The Mechanical Properties of Concrete in Higher Rate of Loading than That of Static Test.	36	I	1962	237
*2610	S. Mochizuki	Experiments on the Reinforced Concrete Walls under Dynamical Repeated Shear Loading.	36	I	1962	245
*2611	H. Aoyama T. Endo T. Minami	Behavior of Reinforced Concrete Frames Subjected to Reversal of Horizontal Forces.	36	II	1966	315
*2612	G. Matsui S. Mochizuki	On the Shear Resistant Properties of Prestressed Prefabricated Resistant Walls.	36	II	1966	327
*2613	K. Uchiyama J. Suzuya	The Influence of the Local Backing of H and Box Beam - Columns on the Rotation Capacity of the Plastic Hinge.	36	II	1966	333
*2614	R. Tanabashi K. Kaneta	An Experiment on the Ductility of Structures and the Ductility Factor.	36	II	1966	339
*2615	K. Nakano	Experiment on Behavior of Prestressed Concrete Four Storied Model Structure under Lateral Force.	37	III	1965	IV-572
*2616	A.L. Churayan Sh. A. Djabua	Methods of Monolithing Junctions in Earthquake Resistant Frameless Large Panel Buildings.	37	III	1965	IV-613
*2617	I. Funahashi K. Kinoshita H. Aoyama	Vibration Tests and Test to Failure of a 7 Storied Building Survived a Severe Earthquake.	37	IV	1969	B1-26
*2618	L.D. Carpenter L.W. Lu	Repeated and Reversed Load Tests on Full-Scale Steel Frames.	37	IV	1969	B2-125
*2619	M. Yamada	Low Cycle Fatigue Fracture Limits of Various Kinds of Structural Members Subjected to Alternately Repeated Plastic Bending under Axial Compression as an Evaluation Basis or Design Criteria for Aseismic Capacity.	37	IV	1969	B2-137
*2620	G.N. Kartsivadze L.N. Avalishvili	Research on Behavior of Reinforced Concrete Constructions under the Effect of Seismic Load.	37	IV	1969	B2-153

No.	Author	Title	Source	No. or Vol.	Date	Page
*2621	T. Shiga J. Ogawa	The Experimental Study on the Dynamic Behavior of Reinforced Concrete Frames.	37	IV	1969	B2-165
*2622	M. Wakabayashi T. Nonaka G. Matsui	An Experimental Study on the Horizontal Restoring Forces in Steel Frames under Large Vertical Loads.	37	IV	1969	B2-177
*2623	S.V. Polyakov H.V. Becheneva J.L. Kotov T.V. Potapova	Bearing Capacity of Building Materials under Dynamic Repeated Loadings.	37	IV	1969	B2-195
*2624	W.G. Corley N.W. Hanson	Design on Beam-Column Joints for Seismic Resistant Reinforced Concrete Frames.	37	IV	1969	B2-69
*2625	T. Hisada	Large-Size Structures Testing Laboratory and Lateral Loading Test of a Five-Storied Full-Size Building Structure	37	IV	1969	B5-69
D - 6 - 3 Static Theory of Structures						
*2626	Y. Yokoo K. Yamagata	A Theoretical Study on Differential Settlements of Structures.	8	5-14	1956	
*2627	R. Tanabashi	Analysis of Statically Indeterminate Structures in the Ultimate State.	8	7-20	1958	
*2628	R. Tanabashi K. Kaneta	On the Relation between the Restoring Force Characteristics of Structures and the Pattern of Earthquake Ground Motions.	9	6	1962	35
*2629	M. Wakabashi	Restoring-Force Characteristics of Tall Buildings.	9	12-A	1969	205
*2630	R. Tanahashi	Ultimate Resistance of Building Structures to Destructive Earthquakes.	10		1956	106
*2631	K. Udagawa H. Tanaka	Stiffness Matrix of Aseismic Walls.	11	21	1969	422
2632	K. Muto	Study on Rigid Frame Structures with Rigid Domain.	20	1	1937	189
2633	K. Muto	Study in the Stress in Rigid Frame Structures Subjected to Seismic Force.	20	2	1942	138

No.	Author(s)	Title	Source	No. or Vol.	Date	Page
2634	K. Muto	Method of Stress Calculation under Horizontal Seismic Force. (Revised in 1949).	22	3	1949	84
2635	K. Ono H. Tanaka	Study on Stress, Deformation and Distribution Ratio of Shearing Forces within a Rigid Frame Considering Walls as a Part of the Structure.	22	12	1951	105
2536	T. Taniguchi T. Iwashita K. Hayakawa	Study on Earthquake Resistant Walls (Part 3) - Investigation on Distribution Ratio of Lateral Forces among all Columns and all Walls of the Existing Buildings.	22	12	1951	109
2537	N. Onitake	On the Distribution of Shearing Forces among Continuous Earthquake Resistant Walls with Openings.	22	12	1951	133
2538	Y. Tsuboi M. Tomii	Anistropic Plate Theory on Earthquake Resistant Walls (Shearing Resistance of Reinforced Concrete Plate, III).	22	14	1951	29
2539	Y. Tsuboi H. Tajimi	Structural Design of Rigid Frames with Walls (Part 1); Determination Method for the Distribution Ratio of Lateral Forces among Walls.	22	17	1952	267
2540	H. Kojima	Analysis of Rigid Frames Subjected to Horizontal Load by the Method of Graphical Iteration.	22	18	1952	271
2541	M. Takeuchi Y. Tanaka K. Kato	Distribution Ration of Lateral Forces among Walls with Arbitrary Rectangular Openings.	22	18	1952	65
2542	T. Naito S. Tani	Lateral Force Distribution in a Horizontally Long Building.	22	18	1952	67
2543	S. Hiruta	Proposed Practical Method of Structural Analysis for Building with Walls.	22	18	1952	71
2544	A. Ohsawa	Influence of Floor Defomration on Distribution Coefficient of Lateral Force (First Report): In Case of Single Story Buildings.	22	20	1952	87
2645	S. Tani	Lateral Force Distribution in a Building with an Opening on One Side (Especially When Floor Rigidity is Taken into Consideration).	22	24	1953	227

No.	Author(s)	Title	Source	No. or Vol.	Date	Page
2646	N. Onitake	Lateral Force Distribution in Rigid Frames with Walls Taking Floor Slab Deformation into Consideration.	22	24	1953	229
2647	H. Umemura S. Masaki T. Koizumi	On Approximate Method of Calculation of Stresses in Rigid Frames Due to Horizontal Load.	22	27	1954	163
2648	H. Umemura S. Masaki	On Approximate Method of Calculation of Stresses in Rigid Frames Due to Lateral Force (Part I): On the Rigid Frames with Outlet Plates.	22	28-II	1954	2-98
2649	S. Masaki	Approximate Method of Calculation of Stresses in Rigid Frames Due to Lateral Force (Part II): On the Rigid Frames with the Outlet Plates.	22	28-II	1954	2-108
2650	Y. Tsuboi M. Tomii	On the Shear Resistance of Reinforced Concrete Slabs (No. 7) - Distribution Coefficient for Lateral Forces on a Single Wall with an Opening.	22	29	1954	131
2651	H. Umemura S. Masaki	On Approximate Method of Calculation of Stresses in Rigid Frames Due to Lateral Force (Part II, Con't.)	22	29	1954	147

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2652	H. Yoshida R. Tachibana	An Elementary Treatise on Arrangements of So-called "Quake-proof Walls" in Plain Frame Works.	23	1	1936	139
* 2653	T. Kono	Approximate Analysis of the Rectangular Frames under the Horizontal Forces.	23	1	1936	149
* 2654	S. Ban	Distribution of Seismic Resistance between Wall and Frame Due to the Theory of Elasticity.	23	4	1937	16
* 2655	H. Yoshida R. Tachibana	Treatise on Arrangements of "Quake-proof Walls" in Plain Frame Works.	23	5	1937	141
* 2656	S. Ban S. Kakimoto	Analysis of Rigid Frame with Bracing Wall.	23	7	1937	13
* 2657	R. Tanabashi M. Itomi	Theoretical Distribution of Horizontal Force to Earth Building Frame.	23	7	1937	23
* 2658	S. Ban	Further Investigation on the Analysis of Rigid Frame with Bracing Wall.	23	9	1938	101
* 2659	H. Takabeya	Practical New Formula of Bending Moments for High-Storied Building Frames Subjected to Wind Pressures or Seismic Loads and Application of the Formula.	23	13	1939	102
* 2660	R. Tanabashi M. Itomi	Graphical Solution of Multi-storied Rectangular Bent, under Horizontal Loads.	23	13	1939	108
* 2661	K. Nomura	Approxiamte Solution of Rectangular Frame Subjected to Horizontal Force.	23	17	1940	320
* 2662	H. Tanabe K. Goto M. Kikuta	Distribution Coefficients and Some Other Discussions on Timber Frames under Lateral Forces.	23	17	1940	329
* 2663	K. Nomura	Approximate Solution of Rectangular Frames Subjected to Horizontal Loads.	23	21	1941	229
* 2664	T. Sekihara	On a Practical Method of Analyzing Rectangular Frames Subjected to Horizontal Forces.	23	22	1941	97

No.	Author	Title	Source	No. or Vol.	Date	Page
*2665	M. Takeuchi	A New Approximate Method of Analyzing Rectangular Frames Subjected to Horizontal Loads.	23	22	1941	103
*2666	K. Fukushima	A Mechanical Solution of Rectangular Rahmen with Horizontal Loadings.	23	26	1942	141
*2667	T. Sekihara	On a Practical Method of Analyzing Three Dimensional Rectangular Frames Subjected to Horizontal Forces.	23	27	1942	121
*2668	K. Muto H. Umemura Y. Sakai, S. Torita M. Matsuura	Theory of Reinforced Concrete Members Subjected to Large Deformations. (Report 2)	23	29	1943	217
*2669	S. Ban	Distribution of Seismic Resistances Among Frames in Space Structures.	23	35	1947	14
*2670	M. Takeuchi	A new Practical Solution of Rectangular Frames Subjected to Horizontal Forces.	23	36	1947	40
*2671	Y. Ohtsuki	Stress Analysis of Wall with Rectangular Holes.	23	41	1950	72
*2672	K. Muto D.W. Butler Y.Ohsawa	On the Method of Analysis of Continuous Frames Composed of Members with End Rigid Portion Considering Bending and Shearing Deformations.	23	45	1952	53
*2673	K. Muto Y. Ohsawa	Aseismic Analysis of Wall with Openings.	23	45	1952	58
*2674	K. Muto A. Ohsawa	Analytical Study on the Lateral Shear Distribution of Asesimic Wall.	23	46	1953	44
*2675	Y. Tsuboi	Shear Deformation of Aseismic Wall (Stress Analysis of Aseismic Wall - 1)	23	46	1953	53
*2676	Y. Ohsawa	The Effect of Slab Deformation on the Lateral Force Distribution in One-Storied Buildings.	23	47	1953	35
*2677	K. Muto K. Kokusho	Experimental Study of Bracing Walls in Two-Storied Reinforced Concrete Buildings.	23	47	1953	42

No.	Author	Title	Source	No. or Vol.	Date	Page
*2678	Y. Tsuboi M. Tomii	Analysis of Shearing Resistance of Reinforced Concrete Walls after the Occurrence of Cracks Based upon the Theory of Orthogonal Aeolotropic Plate.	23	48	1954	26
*2679	R. Oka	On the Upper Limits of Destructive Power of Earthquake, Ultimate Deformability, and Capacity of Absorbing Energy.	23	48	1954	78
*2680	M. Yokota K. Matsumoto	On the Stress Distribution in Rectangular Plate and Beam under the Action of Load Parallel to the Plate Surface.	23	57-1	1957	341
*2681	K. Saito T. Sato	In the Solution of Space Structure by the Relaxation Methods.	23	57-1	1957	401
*2682	Y. Ohsawa	Stress Analysis of an Aseismic Wall Considering the Plastic Deformation of Adjacent Beams.	23	57-1	1957	413
*2683	S. Tani	Arrangement of Bracings in Frame and Its Effect on Stiffness (3).	23	57-1	1957	425
*2684	K. Ishida	A Calculation Method for Rigid Frames Holding Girders Formed with Parallel Choads.	23	57-1	1957	441
*2685	M. Tomii	Design of Section for Quake Resisting Wall (Part 1).	23	57-1	1957	589
*2686	S. Tani	Effectiveness of Bracing Arrangements in Importing Stiffness against Lateral Forces: Lateral Force Distribution in Continuous Plastic Bracings in Three-Dimensional Multi-story Framed Structures.	23	60-1	1958	317
*2687	K. Yamada	Effects of Deformation of Girder and Slab in One-Storied Structure on Lateral Force Distribution: Shearing Force of Rigid Frame in Longitudinal Direction and Torsional Moment of Column Due to Deformation of Slab (Symmetrical Structure).	23	60-1	1958	321
* 2688	S. Hiruta	Study on Practical Calculation Method of Building Having Walls.	23	60-1	1958	325

No.	Author	Title	Soruce	No. or Vol.	Date	Page
*2689	T. Sato	On the Plastic Deformation of the Frame Work by Linear Programming.	23	60-1	1958	333
*2690	S. Okutsu	On the Method of Practical Analysis of Frames with Electric Direct Current.	23	60-1	1958	361
*2691	M. Edanaga	General Solution by Means of the Deflection Formula for Rahmens with Walls Subjected to Horizontal Force.	23	60-1	1958	385
*2692	K. Oishi	An Analysis of Continuous Rigid Frames with Curved Members.	23	63-1	1959	321
*2693	H. Takeda H. Umemura M. Ono	Analysis of Pratt-Truss Rahmen.	23	63-1	1959	325
		On the Approximate Solution for Deflection of a Frame Subjected to the Lateral Forces.	23	63-1	1959	329
*2695	T. Sato	Vector Analysis and Linear Programming of Elastic-perfectly-Plastic Structures.	23	63-1	1959	349
*2696	K. Sadakata	Matrix Method for Framework Calculation.	23	63-1	1959	353
*2697	K. Washio H. Kurobane Y. Seo	The Behavior of Pin-Jointed Space Structures under Lateral Loads.	23	63-1	1959	357
*2698	K. Yamada	Effects of Deformation of Girder and Slab in One-Storied Structure on Lateral Force Distribution: Unsymmetrical Structure of Which Walls Provided with at Both Ends in Transverse Direction, without in Longitudinal Direction.	23	63-1	1959	381
*2699	S. Tani	Lateral Force Distribution in Continuous and Dispersed Reinforced Concrete Bracings in Framed Structures Using the Method of Stress- Controlled Calculation.	23	63-1	1959	385
*2700	S. Tani	Design on Arrangements of Aseismic Elements.	23	66-1	1960	289
*2701	S. Hiruta	For Practical Calculation Method of Buildings Having Walls.	23	66-1	1960	309

No.	Author	Title	Source	No. or Vol.	Date	Page
*2702	K. Ishida	Solution of Rigid Frames with Curved Members.	23	66-1	1960	329
*2703	K. Oishi	An Analysis of Continuous Rigid Frames with Curved Members having Rigid Zones.	23	66-1	1960	341
*2704	K. Yamada	Effects of Deformation of Precast Concrete Slab in One-storied Structure on Lateral Force Distribution: Resistance to Deformation of Precast Concrete Slab Due to Longitudinal Walls (Report 1).	23	66-1	1960	345
*2705	Y. Tanaka S. Ido	Study on the Safety of Cylindrical Shell Roofs under Vertical and Horizontal Loads.	23	66-1	1960	389
*2706	K. Oishi	On Relation Between Stress and Numbers of Span on One-story Continuous Rigid Frames with Curved Members.	23	69-1	1961	269
*2707	K. Yamada	Practical Method for Lateral Force Distribution with Consideration of Deformation of Slab in Building: One-story Structure.	23	69-1	1961	273
*2708	M. Makino	Analysis of Space Frames with Curved Members by Generalized Slope Deflection Equation Method.	23	69-1	1961	277
*2709	Y. Yokoo M. Wakabayashi T. Nonaka	Slope Deflection Method Applied to the Problem of Buckling in Rigid Space Frame with Consideration of the Torsional Flexural Effect.	23	69-1	1961	281
*2710	H. Tanaka	A Systematic Analysis of Plastic Structures.	23	69-1	1961	301
*2711	Y. Gyoten	Stress of Diagrid System Structure under Horizontal Load.	23	69-1	1961	329
*2712	H. Umemura E. Suzuki H. Kitamura	The Solution of the Statically Determinate Folded Spaced Trusses by an Arithmetical Series (An Analysis of Spaced Trusses by Difference Equation, No. 2)	23	69-1	1961	341
*2713	S. Tani J. Sakurai	On Earthquake Resistnat Design Based on Strain Energy.	23	69-1	1961	441
*2714	S. Tani	Stress-Movement by Arrangement of Aseismic Elements.	23	69-1	1961	445

No.	Author	Title	Source	No. or Vol.	Date	Page
*2715	Y. Ohsawa T. Koh	A Theoretical Study on the Lateral Force Coefficients and Stress Distribution for Aseismic Walls in Tall Buildings (No. 1).	23	69-1	1961	453
*2716	Y. Ohsawa T. Koh	A Theoretical Study on the Lateral Force Coefficients and Stress Distribution for Aseismic Walls in Tall Buildings (No. 2).	23	69-1	1961	457
*2717	H. Aoyama	Stiffness under Horizontal Loading of the Reinforced Concrete Frames Having Initial Deformation.	23	69-1	1961	557
*2718	R. Tanaka	Automatic Analysis and Design of Plastic Frames.	23	76	1962	55
*2719	R. Tanabashi T. Nakamura	Elasto-plastic Analysis of Rigid Frames by Gradient Projection Method.	23	76	1962	56
*2720	K. Yamada	The Elastic and Plastic Analysis of the Lateral Force Distribution Considered with the Horizontal Deformation Slabs on Building: One-storied Buildings without Longitudinal Walls.	23	76	1962	57
*2721	J. Sumida Y. Shingu M. Terasaki	Plastic Design by the Combination of Moment Equilibrium Equation.	23	76	1962	59
*2722	M. Takeuchi	A Simplified Proposed Approximate Method for Analyzing the Irregular Frame Subjected to Horizontal Loads.	23	76	1962	66
*2723	T. Miyatake	Practical Stress-Analysis Method of Reinforced Concrete Structures by Horizontal Loading.	23	76	1962	67
*2724	Y. Ohsawa T. Koh	Elastic Analysis of Tall Shear Wall with Boundary Effect by Propagation Method.	23	76	1962	76
*2725	T. Takeda	Indealization of the Plastic Deformation of Reinforced Concrete Beams Subjected to the Alternate Loading.	23	76	1962	98
*2726	S. Tani	On Aseismic Wall with Steel Framed Reinforced Concrete Structure.	23	76	1962	136
*2727	T. Shiga J. Ogawa	Studies on Damage of the Semine Station's Platform Shed Collapsed during Hokubu Earthquake.	23	89	1963	182

No.	Author	Title	Source	No. or Vol.	Date	Page
*2728	S. Tani J. Sakurai N. Kani	Structural Analysis by Electronic Digital Computer (2).	23	89	1963	201
*2729	S. Tani J. Sakurai S. Nakajima	Structural Analysis by Digital Computer (3).	23	89	1963	202
*2730	S. Tani J. Sakurai Y. Hatta	Structural Analysis by Digital Computer (4).	23	89	1963	203
*2731	S. Tani J. Sakurai J. Togashi	Structural Analysis by Digital Computer (5).	23	89	1963	204
*2732	T. Naka T. Kato M. Yuasa	Structure Analysis by Electrical Analogy(No. 1).	23	89	1963	205
*2733	S. Tani J. Sakurai Y. Tanaka	Structural Analysis by Analog Simulation.(Part 4).	23	89	1963	206
*2734	J. Sumita M. Terasaki	Plastic Design of the Rigid Frames with Diagonal Bracings.	23	89	1963	217
*2735	Y. Ohsawa S. Koh	Analysis of a Coupled Aseismic Wall Considering an Axial Deformation of the Wall.	23	89	1963	220
*2736	I. Funahashi I. Kobayashi	A Study on Trussed Wall of Buildings - Theoretical Study.	23	89	1963	221
*2737	T. Kato K. Takanashi Y. Hirata	Analysis on Spaced Truss Composed of Square Pyramid Units.	23	89	1963	223
*2738	H. Tanaka	A Note on Theory of Uniqueness and Stability in Elasto-Plastic Structures.	23	89	1963	236
*2739	I. Tokuhiro	Matrix Analysis of Frame with Normal, Shear Deformation and Semi-Rigid Joint.	23	103	1964	88

No.	Author	Title	Source	No. or Vol.	Date	Page
*2740	H. Kurata R. Sotoyama K. Kuroda	On Numerical Solutions of Frames by Iterative Successive Approximations - Part 1. Irregular Rigid Frame.	23	103	1964	93
*2741	# S. Tani, et al.	On the Character of an Example of Core-System Aseismic Element.	23	Sup.	1965	154
*2742	# N. Nakajima, et al.	Analysis of Space Frame.	23	Sup.	1965	179
*2743	T. Kogo K. Saito	Systematization of Space Frame Analysis with Freely Directional Members.	23	Sup.	1965	180
*2744	Y. Nakamoto H. Hioki T. Hirano	An Extended Slope - Deflection Method for Elasto-Plastic Frame Systems in Consideration of Shear Deformation of Joints.	23	Sup.	1965	182
*2745	T. Takeda	The Shearing Force Distribution Coefficients of Multi-story Frame Analysis, Including Consideration of Shear Deformation of Beam-Column Connective Zone.	23	Sup.	1965	185
*2746	M. Edanaga	A Simplified Proposed Approximate Method for Analyzing the Irregular Frame Subjected to Horizontal Loads.	23	Sup.	1965	186
*2747	J.C. Jeing Y. Ohsawa	Aseismic Analysis of Multi-Storied Frames in Consideration of the Effects Due to the Deformation of Column Axial Direction.	23	Sup.	1965	188
*2748	S. Hirokawa	A Numerical Method of Three Dimensional Frame Analysis.	23	Sup.	1965	189
*2749	T. Iwashita	Horizontal Displacement and Lateral Shear Ration Beared by Web Part on Three-story Aseismic Wall.	23	Sup.	1965	191
*2750	# Y. Tanaka, et al.	Stress Analysis of Space Frames with Aseismic Walls.	23	Sup.	1965	193
*2751	# T. Koh, et al.	Practical Analysis of Core-Wall Type Frames Subjected to Lateral Forces.	23	Sup.	1965	195
*2752	M. Ando N. Onitake	A Method of Elasto-Plasto Analysis of the Shear Wall-Frames.	23	Sup.	1965	197
*2753	F. Takino S. Sugimoto Y. Sugimoto	Structural Design Using Electronic Digital Computer.	23	Sup.	1965	198

No.	Author	Title	Source	No. or Vol.	Date	Page
*2754	# M. Watabe, et al.	Dynamical Analysis of Steel Structure by Electronic Analogy. (Part 2).	23	Sup.	1965	199
*2755	Y. Tsuboi	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear-Wall Structures - No. 1. Introduction.	23	Sup.	1965	225
*2756	H. Tanaka Y. Tsuboi	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear-Wall Structures - No. 3. Slope-Deflection Method for the Rectangular Frames with Shear-Deformable Connections.	23	Sup.	1965	227
*2757	Y. Ohara	A Rigorous Analysis of the Cellular Construction of the Reinforced Concrete Species.	23	Sup.	1965	234
*2758	S. Asano Y. Ohara	A Practical Limit Analysis of the Cellular Construction of the Reinforced Concrete Species.	23	Sup.	1965	235
*2759	K. Nakano	Problem of Structural Design of Prestressed Concrete Structures.	23	Sup.	1965	253
*2760	T. Sato	On the Ultimate Strength of Columns of Tall Steel Frames against Horizontal Loads at Each Story, Taking into Account the Plastic Hinges at Their Feet (2)-No. 1	23	Sup.	1965	313
*2761	T. Hannuki T. Sato	On the Ultimate Strenght of Columns of Tall Steel Frames against Horizontal Loads at Each Story, Taking into Account the Plastic Hinges at Their Feet (2) - No. 2	23	Sup.	1965	314
*2762	# T. Tsunoda, et al.	Automatic Analysis of Minimum Weight Design Problems.	23	Sup.	1965	315
*2763	J. Sumita	S-Composition in Plastic Design.	23	Sup.	1965	316
*2764	T. Nakamura R. Tanabashi	On the Characteristic of the Minimum Weight Design of Tall Multi-Story Frames.	23	Sup.	1965	317
*2765	S. Mochizuki	Analysis of Shear Force of Reinforced Concrete Walls after Cracks.	23	120	1966	28

No.	Author	Title	Source	No. or Vol.	Date	Page
*2766	K. Matsushita M. Izumi Y. Tamura T. Ohta S. Bessho	Some Methods on Mechanism to Decrease Seismic Force Applied to Buildings (Part I - Experimental Study on Methods of Decreasing Seismic Force).	23	122	1966	15
*2767	K. Heki T. Hirano	Elasto-Plastic Behavior of Rectangular Steel Frames Subjected to Lateral Forces.	23	128	1966	1
*2768	T. Iwashita	On the Deformation of Aseismic Wall without Opening Subjected to Lateral Forces (Analysis on the Aseismic Wall by a Lattice Analogy, Part II).	23	130	1966	1
*2769	J. C. Jeing Y. Ohsawa	A Seismic Analysis of Multi Storied Frames in Consideration of the Effects Due to the Deformation of Column Axial Direction - No. 4, 8 Moment Equations for Two Spanned Symmetrical Frame.	23	Sup.	1966	172
*2770	H. Murahasi	On the Effect of Aseismic Walls in Frame Structures.	23	Sup.	1966	175
*2771	H. Aoyama S. Watanabe	Analysis of Hysteresis Curves for Reinforced Concrete Frames.	23	Sup.	1966	201
*2772	S. Mochizuki	Analysis of Shear Force of Reinforced Concrete Walls after Cracks.	23	Sup.	1966	208
*2773	K. Heki	On the Upper and Lower Bounds of the Deformation of Elastic Structures.	23	Sup.	1966	310
*2774	T. Iwashita	On the Stress Distribution of 3 Storied Aseismic without Opening Subjected to Lateral Forces (Analysis on the Aseismic Wall by a Lattice Analogy, Part III).	23	132	1967	25
*2775	T. Iwashita	On the Deformation of 3 Storied Walls with Opening Subjected to Lateral Forces - Analysis on the Aseismic Walls by a Lattice Analogy, Part IV.	23	137	1967	25
*2776	T. Iwashita	A Calculation Method for Two Dimensional Elasto-Plastic Analysis of Reinforced Concrete Structures.	23	141	1967	11
*2777	T. Iwashita	Stress Distribution of 3 Storied Walls with Opening Subjected to Lateral Forces (I). (Analysis on the Aseismic Walls by a Lattice Analogy, Part V).	23	142	1967	15

No.	Author	Title	Source	No. or Vol.	Date	Page
*2778	S. Tani J. Sakurai	On the Dynamic Characteristics in the Arrangement of Aseismic Elements - No. 2.	23	Sup.	1967	177
*2779	K. Sato K. Muto H. Takase	A Stress Analysis of C-Building (25 Stories) in Consideration of Axial and Shearing Deformations of Members and Connections - Exact Solution.	23	Sup.	1967	203
*2780	# N. Ueda, et al.	A Stress Analysis of C-Building (25 Stories) in Consideration of Axial and Shearing Deformations of Members and Connections - Approximate Solution.	23	Sup.	1967	204
*2781	# M. Nitta, et al.	Vibration and Failure Tests of Old Tokyo Kaijo Building - No. 8. Calculation of Ultimate Load.	23	Sup.	1967	372
*2782	T. Iwashita	Stress Distributions of 3 Storied Walls with Opening Subjected to Lateral Forces. (II) (Analysis on the Aseismic Walls by a Lattice Analogy, Part VI).	23	143	1968	13
*2783	A. Mizuhara	On the Solution of Vibration Curves by Statical Experiments.	24	590	1934	1071
*2784	N. Onitake	Study on the Rigid Frame with Wall.	24	848	1957	13
*2785	H. Tanaka	A Series of Studies on the Ultimate Load Design Method.	24	860	1958	13
*2786	F. Matsushita	Study on Stress Analysis of Steel Space Structures.	24	929	1963	477
*2787	T. Iwashita	Studies on the Elasto-Plastic Analysis and Earthquake - Resistant Walls of the Reinforced Concrete Structure.	24	1002	1968	729
*2788	S. Tani J. Sakurai M. Iguchi	On the Dynamic Characteristics in the Arrangement of Aseismic Elements.	36	II	1966	149
*2789	F. Horie A. Odaka	A Study on Multi-Story Frames and Interconnected Arbitary Shear Walls Subjected to Lateral Force (Part 1).	36	II	1966	185
*2790	M. Hattori	Investigation of Yielding Procedure of the Rigid Frame.	36	II	1966	415
*2791	S. Tani	Study on Arrangements of Aseismatic Elements.	37	II	1960	2075

No.	Author	Title	Source	No. or Vol.	Date	Page
*2792	S. Sachanski	Analysis of the Earthquake Resistance of Frame Buildings Taking into Consideration the Carrying Capacity of the Filling Masonry.	37	II	1960	2127
*2793	A.C. Heidebrecht W.K. Tso	A Research Program on the Earthquake Resistance of Shear Wall Buildings.	37	IV	1969	B2-1
*2794	K. Mizuhata	Low Cycle Fatigue under Multiaxial Stress Conditions.	37	IV	1969	B2-31
*2795	T. Paulay	The Coupling of Reinforced Concrete Shear Walls.	37	IV	1969	B2-75
*2796	H. Umemura H. Aoyama	Evaluation of Inelastic Seismic Deflection of Reinforced Concrete Frames Based on the Tests of Members.	37	IV	1969	B2-91
*2797	V. Bertero B. Bresler	Seismic Behavior of Reinforced Concrete Framed Structures.	37	IV	1969	B2-109
*2798	J.A. Blume	Structural Dynamics of Cantilever - type Buildings.	37	IV	1969	A3-1
*2799	N.M. Newmark	Torsion in Symmetrical Buildings.	37	IV	1969	A3-19
*2800	A.J. Carr R.W. Clough	Dynamic Earthquake Behavior of Shell Roofs.	37	IV	1969	A3-171
*2801	J.R. Benjamin	Variability Analysis of Shear Wall Structures.	37	IV	1969	B3-45
*2802	S. Tani J. Sakurai M. Iguchi	An Approxiamte Method of Static and Dynamic Analysis of Core-Wall Buildings.	37	IV	1969	B3-53
*2803	O. de Buen	Antiseismic Design of Multi-Story Steel Frames by Plastic Methods.	37	IV	1969	B3-95
*2804	W.D. Iwan	The Distributed-Element Concept of Hysteretic Modeling and Its Application to Transient Response Problems.	37	IV	1969	A4-45
*2805	B. Kato H. Akiyama	The Ultimate Strength of the Steel Structures Subjected to Earthquake.	37	IV	1969	A4-59
*2806	A. Shibata J. Onose T. Shiga	Torsional Response of Buildings to Strong Earhtquake Motions.	37	IV	1969	A4-123

No.	Author	Title	Source	No. or Vol.	Date	Page
*2807	R. Tanabashi K. Kaneta T. Nakamura S. Ishida	To the Final State of Rectangular Frames.	37	IV	1969	A4-179

D - 7 Foundations

D - 7 - 1 Foundations

*2808	H. Goto K. Toki T. Akiyoshi	Vibration Analysis of Foundation Structures with Elliptic Cross Sections In Elastic Ground.	8	18-1	1968	59
*2809	H. Goto K. Toki T. Akiyoshi	Vibrational Characteristics of Foundations with Elliptic Cross Section in Elastic Ground.	9	11-A	1968	255
*2810	H. Tsutsumi T. Takahashi A. Sakurai Y. Masuko K. Hashimoto	Back Fill Effect on Dynamic Characteristics of Rigid Body.	19	68047	1968	
2811	S. Fujii	Vibration Measurement of the Foundation of High Pressure Gas Machines.	22	7	1950	119
2812	I. Toriumi	Test of Vibrating Machine Foundation by Means of a Model Made of Rubber Particles.	22	16	1951	167
2813	Y. Koizumi T. Tamura	On the Effect of the Macadam (Broken Stone) Foundation on Ground Strength and Seismic Intensity.	22	20	1952	159
*2814	S. Watanabe K. Suzuki	Vibration Test of Machine Foundation.	23	60-2	1958	305
*2815	Y. Baba I. Toriumi T. Karimata	Experimental Study on the Reaction of Vibrating Foundation.	23	76	1962	174

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2816	T. Tajime T. Konno T. Mochizuki	Influence of Variation in Underground Depth of Rigid Frame on the Properties of Vibration.	23	89	1963	188
* 2817	M. Nagatomo T. Ohta I. Kaneko	Dynamic Analyses of Structural Foundation. (No. 1)	23	89	1963	199
* 2818	Y. Tamura I. Kaneko T. Ohta	Dynamic Analyses of Structural Foundation.(No.2)	23	89	1963	200
* 2819	Y. Baba T. Karimata	Experimental Studies on the Distribution of Earth Pressure and Behavior of the Foundation under Seismic Force.	23	89	1963	258
* 2820	# Y. Miyazaki, et al.	Vibration Tests on Foundations.	23	Sup.	1965	346
* 2821	# T. Suzuki, et al.	Stiffness and Damping Characteristics of Elastic Ground Surrounding a Foundation.	23	Sup.	1967	165
* 2822	# Y. Yamazaki, et al.	Study on Dynamic Behaviour of Ground and Footing's Models Subjected to Elastic Waves.	23	Sup.	1967	167
* 2823	# I. Sakamoto, et al.	Vibration Tests of Individual Foundations Having Different Boundary Conditions at Matsushiro.	23	Sup.	1967	237
* 2824	H. Goto S. Yoshihara M. Kitaura	Experimental Study on the Horizontal Restoring Force Acting on the Substructure in Dry Sand.	26	194	1971	1
2825	T. Shiraishi	Foundation of Structures Subjected to Static Horizontal Load.	28	I	1957	33
2826	H. Goto K. Toki S. Takada	Response of Ground and Structural Foundation to Earthquake.	28?	X	1969	79
2827	K. Tanimoto	Vibration Behavior of Ground and the Foundation of Machines.	29	5-2	1957	34

No.	Author	Title	Source	No. or Vol.	Date	Page
2828	H. Yamahara	Test Analysis of Forced Vibration of the Foundation of a Large Compressor.	32	1	1962	55
* 2829	H. Tajimi	Dynamic Analysis of Structures Supported on Deep Foundations.	36	II	1966	255
* 2830	S. Shiraishi	Resistance of Foundation Ground against Overturning Forces.	37	II	1960	249
* 2831	J. Takeda H. Tachikawa	Mechanical Properties of Sand Subjected to Dynamic Load by Shallow Footing.	37	III	1965	I-180
* 2832	P.W. Taylor J.M.O. Hughes	Dynamic Properties of Foundation Subsoils as Determined from Laboratory Tests.	37	III	1965	I-196
* 2833	E.J. Monge	On the Impedance Tensor of a Semiinfinite Elastic Soil under a Rigid Body.	37	III	1965	II-859
* 2834	S. Prakash B.M.Basavanna	Effect of Size and Shape of Foundation on Elastic Coefficients in a Layered Soil Mass.	37	IV	1969	A6-13
* 2835	S.B. Barnes	Some Special Problems in the Design of Deep Foundations.	37	IV	1969	A6-29
D - 7 - 2 Pile Foundations						
* 2836	K. Kubo N. Sato	Aseismicity of a Structure with Pile-Foundations.	11	20	1968	169
2837	H. Matsuo T. Takahashi	Test on Horizontal Resistance of Piles. (First Report)	16	42	1938	19
2838	H. Matsuo	Test on Horizontal Resistance of Piles. (Second Report).	16	46	1939	65
2839	M. Sawaguchi	Study on Ground Coefficients Relevant to Lateral Resistance of Piles.	17	7-2	1968	65
2840	N. Suzuki	Experimental Study on Vertical and Horizontal Loading Capacities of Foundation Piles.	18	245	1961	
* 2841	Y. Kobayashi	Vibration and Deformation of Ground under Pile-Driving.	18	583	1967	

No.	Author	Title	Source	No. or Vol.	Date	Page
2842	Y. Esashi T. Takahashi H. Tsutsumi Y. Masuko	Analysis of Dynamic Behavior of Steel Pipe Piles through the Observation of the Matsushiro Earthquake.	19	68020	1968	
2843	F. Isaka	Test on Load-Carrying Capacity of Piles by Using a Model.	20	1	1937	158
2844	T. Suzuki	Buckling and Vibration of Piles in Soft Ground. (Pt. 1)	22	14	1951	195
*2845	Y. Yasuoka	Graphical Solution for the Distribution of Lateral Pressure on Piles by Earthquake Shock.	23	17	1940	362
*2846	T. Taniguchi H. Kawasaki I. Ogino M. Hosoyamada	Study on Calculation Method of Pile Resistance.	23	57-1	1957	293
*2847	H. Ishizaki S. Kawamura,et al.	Basic Vibration Tests of Concrete Piles.	23	66-1	1960	629
*2848	S. Watanabe T. Tsunoda	Experimental Study on Vibration Characteristics of Concrete Pile Foundation (2).	23	69-1	1961	793
*2849	S. Watanabe T. Tsunoda	Vibration Behavior of Steel Pipe by Artificial Earthquake (Preliminary Test).	23	89	1963	260
*2850	Y. Koizumi K. Kyo	Experimental Method to Determine Spring Constants and Vertical Mass of Vibrating Pile.	23	107	1965	43
*2851	# S. Yamamoto,et al.	Effect of Clearance between Bottom of Foundation and Soil for Dynamical Behavior of Pile Foundation.	23	Sup.	1965	359
*2852	H. Kishida	Horizontal Resistance of a Single Pile.	23	Sup.	1965	363
*2853	# K. Ban,et al.	Vibration of a Steel Framed Structure Whose Columns are Connected to Pile.	23	Sup.	1965	367
*2854	S. Yamamoto	Rocking Vibration of Structures with Piles (Part.1. Statical Spring Constants on Surface of Pile and at Bottom of Pile).	23	125	1966	24

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2855	S. Yamamoto	Rocking Vibration of Structures with Piles (Part 2: Restoring Force by Bending Vibration of Pile.)	23	129	1966	15
*2856	S. Yamamoto	Rocking Vibration of Structures with Piles (Part 3: Distribution of Bending Moment and Displacement along Pile by Bending Vibration of Pile)	23	130	1966	18
*2857	S. Yamamoto H. Yonetani	Rocking Vibration of Structure with Piles.	23	Sup.	1966	133
*2858	# T. Seki,et al.	Effect of Clearance between Bottom of Foundation and Soil on Dynamical Behavior of Pile Foundation. (PartII).	23	Sup.	1966	135
*2859	T. Tade Y. Baba	On the Propagation of Load from the Top of Pile to Ground.	23	Sup.	1966	351
*2860	# H. Nagaoka,et al.	A Theoretical Solution of Negative Friction Acting on a Pile.	23	Sup.	1966	357
*2861	J. Takeda H. Tachikawa	Mechanical Properties of Pile Foundation in Sand Subjected to Dynamic Load (Built-in Pile in Dry Sand with Medium Density).	23	Sup.	1966	362
*2862	T. Mochizuki T. Tazime	An Experimental Study of the Vibrational Buckling of Pile.	23	Sup.	1966	363
*2863	# T. Ikeda,et al.	Experimental Study on the Tieback Anchor Utilizing Arch Action of Gravel.	23	Sup.	1966	373
*2864	S. Yamamoto	Rocking Vibration of Structures with Piles (Part 4. Complex Restoring Force at Tope of Pile by Axial Vibration of Pile).	23	131	1967	24
*2865	S. Yamamoto	Rocking Vibration of Structures with Piles (Part 5. Stationary Rocking Vibration of Structures with Piles).	23	132	1967	32
*2866	T. Mochizuki T. Tajime	Experimental Study on Vibrational Behavior of Pile Foundation - on the Damping Properties.	23	Sup.	1967	236
*2867	Y. Tsuboi Y. Suyenaga T. Shigenobu	Fundamental Study on the Ratio of Diameter to Length of Foundation Pile. (Part 1).	23	143	1968	27

No.	Author	Title	Source	No. or Vol.	Date	Page
*2868	Y. Tsuboi Y. Suenaga	Fundamental Study on the Ratio of Diameter to Length of Foundation Pile (Part 2.Statistical Consideration).	23	144	1968	13
*2869	# Y. Tsuboi,et al.	Fundamental Study on the Ratio of Diameter to Length of Foundation Pile (Part 3.Theoretical Consideration).	23	145	1968	11
*2870	S. Yamamoto S. Matsunaga T. Seki	The Change in Dynamical Characteristics of Structue with Piles by Increasing of Vacancy between Base of Foundation and Soil.	23	147	1968	43
*2871	S. Yamamoto S. Yonetami	Rocking Vibration Characteristics of Rigid Structure with Piles on Elastic Two-Layer Ground against Ground Motion.	23	148	1968	23
*3872	H. Nagai	Study on Horizontal Forces of Piles during Earthquakes.	24	75	1960	141
*3873	H. Goto T. Ashimi T. Takii	Model Tests and Their Considerations about Horizontal Resistance of Batter Piles and Combined Piles.	26	79	1962	24
*2874	K. Tanimoto	A Fundamental Study on Earthquake-Proof Properties of Pile Foundations.	27	40	1955	132
2875	T. Shinohara K. Kubo	Test on the Lateral Resistance of Piles (First Report).	28	I	1957	31
*2876	S. Murayama T. Shibata M. Saito	Load Carrying Capacity of Piles under Dynamic Conditions.	28	II	1958	7
2877	T. Shinohara K. Kubo H. Iguchi M. Murakami	Test on Lateral Resistance of a Single Pile.	28	III	1959	13
2878	S. Hayashi K. Suzuuchi	Report on the Horizontal Load Test of Piles of H Section (First Report) - Static Load Test.	28	V	1961	7
2879	S. Hayashi N. Miyajima	On the Result of the Horizontal Load Test of Piles of H Section (Second Report) - Dynamci Load Test.	28	V	1961	9

No.	Author	Title	Source	No. or Vol.	Date	Page
2880	S. Hayashi N. Miyajima	Study on Horizontal Resistance of Piles of H Section.	28	VI	1963	9
2881	S. Kotsubo N. Ogata	Earthquake Resistant Design of Pile Foundations in Soft Ground.	28	VIII	1965	15
2882	S. Kotsubo G. Aramaki	Stress of Diagonally-Driven Piles during Earthquake.	28	IX	1967	21
2883	S. Esashi T. Takahashi H. Tsutsumi H. Matsuno Y. Hasegawa	Report on the Observation of Seismic Response of Steel Pipe Piles during the Matsushiro Earthquake.	28	IX	1967	25
2884	S. Kotsubo G. Aramaki T. Kawato	On the Vibration Behavior of Pile Foundations during Earthquakes.	28	X	1969	61
*2885	Y. Yamaguchi K. Uematsu	Vibration Behaviour of Steel Pipe Pile for Excitor Foundation - Report No. 1.	34		1969	129
*2886	K. Fujita Y. Yamaguchi	On Aseismic and Monolithic Properties of Dolphin Built with Box-Piles : A Case of Ore-unloading Berth Construction at Sakai Works of Yawata Iron and Steel Co., Ltd.-	34		1969	135
*2887	S. Hayashi N. Miyajima	Dynamic Lateral Load Tests on Steel H-Piles.	36	I	1962	213
*2888	Y. Matsumoto T. Tsuchiya	Lateral Load Capacity of Vertical and Battered Concrete Pile Groups.	36	I	1962	219
*2889	N. Ogata S. Kotsubo	Seismic Force Effect on Pile Foundation.	36	II	1966	55
*2890	S. Hayashi I. Yamashita K. Ogura	Dynamic Response of Steel Piles to Lateral Excitation.	36	II	1966	61
*2891	J. Takeda H. Tachikawa	Dynamic Load-settlement Relation of Footing and Piles Used in Sand.	36	II	1966	85

No.	Author	Title	Source	No. or Vol.	Date	Page
*2892	S. Yamamoto	Rocking Vibration of Structures with Piles.	36	II	1966	249
*2893	T. Masao T. Tajime M. Sugimoto	An Experimental Study of Structure with Piles.	36	III	1970	65
*2894	I. Yamashita T. Inatomi	Virtual Mass of Laterally Loaded Piles.	36	III	1970	525
*2895	T. Shinohara T. Tateishi K. Kubo	Bearing Capacity of Sandy Soil for Eccentric and Inclind Load and Lateral Resistance of Single Piles Embedded in Sandy Soil.	37	II	1960	265
*2896	S. Prakash S.L. Aggarwal	Study of a Vertical Pile under Dynamic Lateral Load.	37	III	1965	I-215
*2897	S. Hayashi N. Miyajima I. Yamashita	Horizontal Resistance of Steel Piles under Static and Dynamic Load.	37	III	1965	II-146
*2898	S. Kurata H. Arai T. Yokoi	On the Earthquake Resistance of Anchored Sheet-Pile Bulkheads.	37	III	1965	II-369
	D - 7 - 3 Wells					
*2899	M. Hakuno Y. Nojiri	An Experiment on Dynamical Properties of a Well Foundation.	26	170	1969	9
2900	Y. Noguchi H. Goto H. Nakagawa K. Nishikawa	Experimental Study on a Model in Relation to Horizontal Resistance of Open Caisson of Wing Wall Type.	28	VII	1964	23
2901	Y. Noguchi H. Goto H. Nakagawa K. Nishikawa	On the Field Test of Open Caisson of Wing Wall Type and Its Horizontal Resistance.	28	VII	1964	25
2902	M. Kurata K. Okamura H. Tada	On the Rocking Vibration of the Caisson Foundation.	28	IX	1967	83

No.	Author	Title	Source	No. or Vol.	Date	Page
2903	M. Kurata K. Okamura H. Tada Y. Shindo	Vibration Analysis of the Foundation Consisting of Caissons and Piles.	28	X	1969	53
*2904	N. Miyajima Y. Hasegawa T. Giga	An Experimental Study on Vibration Behavior of the Well Composed with Box Piles.	36	III	1970	619
*2905	T. Tajime S. Terada T. Mochizuki	Vibrational Property and Earthquake Response of Tall Building Supported with Caisson or Pile.	37	III	1965	I-173
2906	T. Tajime	Vibration Characteristics and Seismic Responses of Tall Buildings Supported by Caissons or Piles.	38	I	1964	118

E. Earthquake Damage

E - 1 General Earthquake Damage

No.	Author	Title	Source	No. or Vol.	Date	Page
2907	M. Emori	Report on Earthquake Disaster in Aichi Prefecture	1	2	1894	8
2908	Fukui Prefecture	Earthquake Disaster Scenes in Fukui Prefecture.	1	2	1894	69
2909	F. Ohmori	The Investigation of the Tokyo Violent Earthquake that Occurred on June 20th, in the 27th year of the Meiji Era (1894).	1	28	1899	71
2910	F. Ohmori	The Investigation of the Great Nobi Earthquake that Occurred on October 28th in the 24th year of the Meiji Era (1891).	1	28	1899	79
2911	T. Iki	The Investigation on the Fukuoka Earthquake.	1	29	1899	5
2912	F. Ohmori	The Second Report on the Investigation of the Fukuoka Violent Earthquake that Occurred in August, the 31st year of the Meiji Era (1898).	1	32	1900	47
2913	O. Shioji	The Investigation on the Strong Earthquake that Occurred around 2:40 p.m. on June 2, in the 38th year of the Meiji Era (1905).	1	53	1906	23
2914	I. Ishiguro	The General Report on the Investigation of the Earthquake Disaster Area within the Jurisdiction of the Shiga Prefecture.	1	69	1910	29
2915	I. Ishiguro	The General Report on the Investigation of the Earthquake Disaster Area within the Jurisdiction of the Gifu Prefecture.	1	69	1910	31
2916	A. Imamura	The Kikaigashima Earthquake of the 44th year of the Meiji Era (1911).	1	77	1913	88

No.	Author	Title	Source	No. or Vol.	Date	Page
2917	F. Ohmori	The General Description of Earthquake Disaster and the Precautions to be Taken.	1	88-C	1920	1
2918	F. Ohmori	The Investigation Report on the Violent Earthquakes in the Omachi Area of the Shinshu Province that Occurred in the 7th year of the Taisho Era (1918).	1	94	1921	16
2919	S. Tsuboi	The General Report on the Investigation of the Omachi Earthquake in Shinshu Province.	1	98	1922	13
2920	M. Shibuzawa	Description of Damage in Electrical Equipment Resulting from Earthquake.	1	100-D	1926	251
* 2921	The Earthquake Research Institute.	Geophysical Investigations on the Severe Earthquake in the Province of Tango (in Japanese).	5	3	1927	163
* 2922	T. Kinbara T. Takemura	Reports on the Sizuoka Earthquake of July 11, 1935.	5	13	1935	966
* 2923	N. Nasu T. Hagiwara	The Kawachi-Yamato Earthquake of February 21st, 1936,	5	14	1936	285
* 2924	T. Takayama	Report on the Field Investigation of the Earthquake of November 3, 1936.	5	15	1937	179
* 2925	H. Kawasumi	The Imaichi Earthquake of December 26th, 1949. General Description.	5	28	1950	355
* 2926	E. Shima M. Sibano	Futatsui Earthquake of October 19th, 1955.	5	34	1956	113
* 2927	F. Kishinouye	Oscillations of Water in a Reservoir, Observed in the Case of the Kita-Mino Earthquake on Aug. 19, 1961.	5	40	1962	67
* 2928	Y. Sato T. Matsuda M. Sibano	Earthquake Which Occurred in the Northern Part of Miyagi Prefecture, Japan on April 30th, 1962.	5	40	1962	591
* 2929	S. Komaki F. Kishinouye	A Report of the Hyuganada Earthquake of February 27, 1961.	5	42	1964	245
* 2930	S. Nagumo	Field Studies of the Oga-Oki Earthquake of May 7, 1964.	5	42	1964	597

No.	Author	Title	Source	No. or Vol.	Date	Page
* 2931	Y. Ohta I. Onda H. Maekawa	Off-Tokachi Earthquake Occurred on May 16, 1968 with Special Respect to Field Investigations in the Southern Part of Hokkaido.	5	46	1968	1397
* 2932	T. Matsuda Y. Tsuneishi	Geological Report on Damage in the Okumino Area, Associated with the Earthquake of the Central Part of Gifu Prefecture.	5	48	1970	1267
* 2933	M. Hakuno	Report on Damage to Structures by the Earthquake of the Centrel Part of Gifu Prefecture, September 9, 1969.	5	48	1970	1287
* 2934	H. Kawasumi Y. Sato	The General Report on the Nankai Large Earthquake Occurred on December 21st, 1946.	7	5	1947	1
* 2935	S. Yoshikawa	The Niigata Earthquake.	9	8	1964	1
2936	S. Hoshino	The Summary of the Investigation of the Niigata Earthquake.	11	16	1964	284
2937	T. Maruyasu M. Nishio	The Investigation of the Niigata Earthquake Conducted by the Aerial Photographs.	11	16	1964	306
2938	The Central Meteorological Station.	The General Report on the Field Survey on the Kita-Tango Great Earthquake (The First through Third Report).	12	3	1927-1929	143
2939	Yokohama Meteorological Station.	The Survey Report on the Sagami Earthquake that Occurred on July 27th, 1929.	12	4	1930-1931	44
2940	M. Kitada	The Report on the Uraga Earthquake in Hokkaido that Occurred on Feb. 17th, 1931.	12	6	1932-1933	133
2941	H. Honda T. Miura	The Investigation Report on the Strong Earthquake in the Gifu Prefecture on August 18th, 1934.	12	8	1935	123
2942	Gifu Meteoroligical Station.	On the Strong Earthquake that Occurred in the Gifu Prefecture on August 18th, 1934.	12	8	1935	129
2943	The Central Meteorological Station.	Damage Due to the Shizuoka Strong Earthquake.	12	9	1935-1937	70

No.	Author	Title	Source	No. or Vol.	Date	Page
2944	K. Wadachi H. Honda T. Kineshima J. Kawase M. Morita M. Kawano S. Murase	The Survey Report on the Area Shaken by the Shizuoka Strong Earthquake.	12	9	1935-1937	72
2945	K. Shimamura	The Survey Report on the Area Shaken by the Shizuoka Strong Earthquake.	12	9	1935-1937	84
2946	The Central Meteorological Station.	The Investigation on Damage Due to the Kochi-Yamato Strong Earthquake.	12	9	1935-1937	105
2947	The Central Meteorological Station.	Damages, Ground Deformations and Other Phenomena Due to the Off-Tanabe Bay Earthquake in Wakayama Prefecture that Occurred on January 12, 1938.	12	10	1937-1940	277
2948	T. Miyake T. Yamamoto	The Investigation Report on the Area Shaken by the Off-Tanabe Bay Strong Earthquake in Wakayama Prefecture that Occurred on Jan. 12th, 1938.	12	10	1937-1940	281
2949	M. Takehana K. Soeda	The Survey Report on the Off-Shioyazaki Earthquake that Occurred in the Fukushima Prefecture on May 23rd, 1938.	12	10	1937-1940	303
2950	K. Yanagitani I. Takagi	The Investigation Report on Damage Due to the Off-Shioyazaki Earthquake that Occurred in Fukushima Prefecture on May 23, 1938.	12	10	1937-1940	310
2951	Fukushima Meteorological Station.	The Investigation Report on Damage Due to the Off-Shioyazaki Earthquake that Occurred in Fukushima Prefecture on May 23, 1938.	12	10	1937-1940	313
2952	J. Suehiro, et al.	The Survey Reports on the Fukui Earthquake.(1) - (5)	12	14(Sup)	1948	22
2953	The Central Meteorological Station.	The Investigation Report on The Tochigi-ken Earthquake of December, 1949.	12	15-1	1950	
* 2954	T. Nakajima T. Makino	Report on the Kumanogawa Earthquake.	12	16-2	1952	1

	No.		Author	Title	Source	No. or Vol.	Date	Page
*	2955	#	I. Yamashita, et al.	Field Investigations of the Daishoji Earthquake (1) - (3)	12	17-3	1953	103
*	2956		Seismological Section C.M.O. and Kashihara Weather Station.	The Yoshino Earthquake of July 18, 1953.	12	17-4	1953	83
*	2957		L.M.O. Kushiro	Report of Field Investigation on the Teshikaga Earthquake of November 4, 1967.	12	33-1	1969	31
*	2958		J.M.A Gifu L.M.O.	Report on the Gifuken-Chubu Earthquake, 1969.	12	34-4	1970	71
*	2959		D.M.O. Sapporo D.M.O. Sendai	The Earthquake of August 12, 1969, which Occurred Off East Coast of Hokkaido.	12	35-1	1970	15
*	2960		D.M.O. Sendai L.M.O. Akita L.M.O. Morioka	The Earthquake of Oct. 16, 1970 Occurred on the SE part of Akita Prefecture.	12	36-1,2	1971	44
*	2961		D.M.O. Fukuoka	The Earthquake of July 26, 1970 Which Occurred off Miyagi Prefecture.	12	36-1,2	1971	85
*	2962		M. Nagamori	Survey on Disaster Due to the Tokachi-oki Earthquake, 1968. Introduction.	15	141	1971	1
*	2963		T. Terashima	Survey on Disaster Due to the Tokachi-oki Earthquake, 1968. Chapter 1, 1968 Tokachi-oki Earthquake.	15	141	1971	3
*	2964		E. Kuribayashi K. Kuwahara	Survey on Disaster Due to the Tokachi-oki Earthquake, 1968. Chapter 2, Amounts of the Earthquake Damage and Geological Feature.	15	141	1971	25
	2965		R. Yoshiyama	The Investigation Record of The Shizuoka Earthquake.	21	7	1935	511
	2966		A. Imamura	On the Recent Ohmi Earthquake.	24	275	1909	502
*	2967		A. Imamura	On the Late Earthquake.	24	447	1923	401
*	2968		A. Imamura	Great Tango Earthquake.	24	496	1927	591
*	2969		K. Ozaki	On the Damages of Buildings of the Recent Great Earthquake in Tango Province and Its Vicinities.	24	496	1927	628

No.	Author	Title	Source	No. or Vol.	Date	Page
2970	F. Ohmori	On the Intensity of the Earthquake Ground Motion and the Damage.	27	8	1922	675
* 2971	K. Kato M. Hakuno	Report on Damage Caused by Nagaoka Earthquake.	27	46-8	1961	19
* 2972	K. Kanai R. Tsuchiya H. Sato T. Kosaka N. Kuboshima K. Hayashi Y. Shibuya N. Harada	Rehabitation Aspect One year after the Niigata Earthquake.	27	50-6	1965	50
2973	K. Kasahara	On the Niigata Earthquake.	28	VII	1964	31
2974	K. Suzuki R. Yashima K. Tohyama	Damage and Geological Change that Occurred in the Fukushima-Aizu Area Resulting from the Niigata Earthquake.	29	15-10	1967	3
* 2975	Japan National Committee on Earthquake Engineering.	Niigata Earthquake of 1964.	37	III	1965	S-78
2976	H. Takashima	The Investigation of Earthquake Damage by the Aerial Photograph.	38	V	1968	167
2977	K. Noritomi S. Nabetani M. Nogoshi	The Investigation of the Damage Resulting from the Earthquake that Occurred in the Southeast Area of the Akita Prefecture.	38	VII	1971	145

E - 2 Earthquake Damage to Buildings

E - 2 - 1 Earthquake Damage to Buildings, General

2978	F. Ohmori	Report on the Kokkaido Earthquake.	1	3	1895	27
2979	K. Ishii	The Investigation Report on Damage of Structures Due to the Hokkaido Earthquake.	1	3	1895	47
2980	F. Ohmori	Report on the Investigation of the Earthquake that Occurred in the Yamagata Prefecture.	1	3	1895	79

No.	Author	Title	Source	No. or Vol.	Date	Page
2981	T. Nakamura	Report on the Investigation Tour of the Earthquake Disaster Area in the Yamagata Prefecture.	1	3	1895	107
2982	T. Nakamura	Report on the Investigation Tour in the Disaster Area Shaken by the Rikuu Earthquake.	1	11	1897	84
2983	S. Kimura	The Investigation Report on Earthquake Disaster and Damage in Sendai City and Its Vicinity.	1	21	1898	51
2984	F. Ohmori	The Second Report on the Investigation of the Nobi Great Earthquake of Oct. 28th, in the 24th Year of the Meiji Era (1891).	1	32	1900	67
2985	T. Sone	Report on Investigation of Earthquake Damage in Osaka Area.	1	32	1900	105
2986	A. Imamura	The Investigation Report on the Geiyo Earthquake of June 2, in the 38th Year of the Meiji Era (1905).	1	53	1906	2
2987	T. Sone	Report on the Field Investigation of the Ko-No Earthquake Disaster Area.	1	69	1910	19
2988	A. Imamura	The Investigation Report on the Anegawa Earthquake that Occurred in the 42nd Year of the Meiji Era. (1909)	1	70	1910	1
2989	A. Imamura	The Earthquake in the Summer of the First Year of the Ansei Era (1854).	1	77	1913	1
2990	A. Imamura	The Hamada Earthquake of the Fifth Year of the Meiji Era (1872).	1	77	1913	43
2991	The Metropolitan Police Board.	The Investigation Report on Damage in the City of Tokyo Resulting from the Earthquake of April 26, in the Eleventh Year of the Taisho Era (1922).	1	99	1925	22
2992	The Kanagawa Prefectural Office.	The Damage Conditions in the Kanagawa Due to the Earthquake of April 26, 1922.	1	99	1925	32
2993	D. Tanaka	The Investigation Report on Damage to Buildings in Yokohama City.	1	100-C-II	1926	379

No.	Author	Title	Source	No. or Vol.	Date	Page
2994	J. Takenaka	On the Earthquake Damage to Factories.	1	100-D	1926	235
* 2995	F. Ohmori	Observation in Tokyo of the Strong Earthquake on Jan. 14, 1923.	4	4	1924	1
* 2996	A. Imamura	Preliminary Note on the Great Earthquake of S.E. Japan on Sept. 1, 1923.	4	6	1924	1
* 2997	T. Hagiwara	The Sizuoka Earthquake of July 11, 1935.	5	13	1935	951
* 2998	T. Saita	The Shizuoka Earthquake of July 11th, 1935.	5	13	1935	985
* 2999	R. Yoshiyama	Earthquake near the National Park Hakusan on August 19th, 1961.	5	39	1961	849
* 3000	I. Onda	Studies of the Northern Miyagi Earthquake on April 30th, 1962. - Compared with the Northern Rikuzen Earthquake on May 12, 1900.	5	40	1962	613
* 3001	Y. Ohsawa M. Murakami T. Nishikawa	On the Damage to Buildings during the Earthquakes of February 21 and 22, 1968 near Mt. Iimori, Miyazaki Prefecture.	5	46	1968	1345
* 3002	Y. Ohsawa M. Murakami Y. Kitagawa	A Brief Report on the Damage to Buildings during the 1968 Off-Tokachi Earthquake.	5	46	1968	1451
* 3003	Y. Ohsawa M. Murakami	Report on the Damage of Buildings Due to Niigata Earthquake.	7	8	1964	116
* 3004	M. Wakabayashi T. Nakamura K. Minami	On the Damage of Buildings Due to Off-Tokachi Earthquake in 1968.	9	12-A	1969	87
3005	Y. Tsuboi H. Tanaka S. Kawamata	The Characteristics of the Niigata Earthquake and Resulting Damage to Buildings.	11	16	1964	280
3006	M. Hoshino	The Earthquake Damages to Factories and Warehouses and Proposed Preventive Measures.	11	16	1964	289

No.	Author	Title	Source	No. or Vol.	Date	Page
3007	The Kumamoto Meteorological Station.	The Investigation Report on the Hyuganada Earthquake of November 19th, 1941, Conducted in the Kumamoto Prefecture.	12	12	1942	174
3008	T. Okabe	Report on the Field Survey of the Hyuganada Earthquake that Occurred on November 19, 1941.	12	12	1942	176
* 3009	K. Kimura	On Earthquake Damage to Buildings at the Shikinejima Island.	13	50	1967	103
3010	S. Omote N. Nakajima	Report on Investigation of Earthquake Damage Due to the Off-Tokachi Earthquake of 1968 (Part 2).	13	57	1970	1
3011	A. Kato	On the Strong Earthquake That Occurred on the Kussharo Lake Shore in Hokkaido in May 29th, 1928.	20	10	1938	321
* 3012	K. Kaneta Y. Takeuchi T. Fujiwara	A Preliminary Survey and Observation of Damaged Buildings in Niigata City Due to June 16, 1964, Niigata Earthquake.	23	103	1964	133
3013	T. Tanaka	The Field Report on the Conditions of the Earthquake Disaster Area.	24	61	1892	7
3014	Y. Tsukamoto	The Damage Condition of the Ryo-u Earthquake: A Personal Opinion on Earthquake Resistance Measures.	24	100	1895	85
3015	T. Nakamura	The Report of Investigation Tour in the Disaster Area Shaken by the Shonai Earthquake.	24	103	1895	159
3016	M. Noguchi	The Investigation Report on Damage Due to the Shonai Earthquake.	24	109	1896	1
3017	Y. Tsukamoto T. Sone T. Nakamura T. Katayama K. Tatsuno	Report on Earthquakes that Occurred in Tokyo during the Month of January.	24	110	1896	36
3018	T. Nakamura	Report on the Observation Tour in the Disaster Area Shaken by the Rikuu Earthquake.	24	121	1897	1

No.	Author	Title	Source	No. or Vol.	Date	Page
3019	G. Takeda	Comment on the Damage Due to the Ohmi Earthquake.	24	273	1909	415
3020	S. Uchida	Building Structure and Earthquake Damage in Kagosjima City.	24	337	1915	13
3021	S. Uchida	Building Structure and Earthquake Damage in Kagoshima City. (Part II).	24	338	1915	90
3022	S. Uchida	Building Structure and Earthquake Damage in Kagoshima City. (Concluding Part).	24	339	1915	137
* 3023	A. Imamura	Damages by Earthquake.	24	403	1920	321
* 3024	D. Tanaka	A Memoir on the Damage Caused by the Earthquake in Kanagawa Prefecture on April 26th, of the 11th Year of Taisho Era (1922).	24	432	1922	1
* 3025	T. Naito	A Memoir on the Damage Caused by the Earthquake in Tokyo on April 26th of the 11th Year of Taisho Era (1922).	24	436	1922	1
* 3026	J. Takenaka G. Takagi	On the Factories and the Seismic Damage.	24	449	1924	36
* 3027	S. Yakushiji	On the Calamity of the Buildings.	24	449	1924	56
* 3028	G. Kitazawa	On the Outline of Damages Caused by the Earthquake in General in Tokyo.	24	449	1924	81
* 3029	D. Tanaka	Statistics of the Damage to Buildings in Yokohama.	24	454	1924	327
* 3030	S. Matsui	Report on the Damage to Buildings under the Administration of the Japanese Ministry of Education	24	454	1924	335
* 3031	S. Yakushiji	On the Seismic Damage of Military Buildings.	24	460	1924	633
* 3032	K. Nagasawa	The Seismic Damages of the Buildings in the Naval Explosives Factory.	24	463	1924	839
* 3033	K. Nagasawa H. Tanabe S. Asano	On the Earthquake in Kita-Tajima.	24	472	1925	317

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3034	S. Horikoshi	The Earthquake Damage of Architectural Equipments.	24	487	1926	795
* 3035	Y. Nagata	On the Damages of Buildings of the Recent Great Earthquake in Tango Province and Its Vicinities.	24	496	1927	602
* 3036	H. Yoshida J. Imura	Earthquake in Hokuriku District on the 17th, October, 5th Year of Showa (1930).	24	540	1930	2191
* 3037	H. Tanabe H. Futami K. Muto	On the Damages to Buildings in Kita-Kanto District Due the Earthquake on September 21st, 1931.	24	550	1931	1496
3038	The Earthquake Disaster Investigation Party of the Architectural Institute of Japan.	The Investigation Report on the Earthquake Disaster in the Tottori Prefecture.	24	706, 707	1944	79
3039	The Investigation Party for the Hokusiku Earthquake Disaster.	The General Report on the Investigation of the Hokuriku Earthquake Disaster.	24	744	1948	23
3040	K. Matsushita F. Ito M. Fujimoto H. Kobayashi T. Sakai K. Kimura T. Hisada Y. Ohta S. Fukushima S. Sugiyama K. Nakata S. Kono	The Investigation Report on the Earthquake Disaster that Occurred near the Imaichi City of the Tochigi Prefecture.	24	765	1950	46
3041	Department of Architectural Engineering, The Faculty of Engineering, Hokkaido University.	The General Report on the Investigation of the Off-Tokachi Earthquake: Part 1, Hokkaido.	24	787	1952	1

No.	Author	Title	Source	No. or Vol.	Date	Page
3042	Dept. of Architectural Engineering, The Faculty of Engineering, Tokoku University.	The General Report on the Investigation of the Off-Tokachi Earthquake: Part 2, The Tohoku Area.	24	787	1962	18
3043	Y. Sakabe	The Experience in the Fukui Earthquake.	24	885	1960	353
3044	Y. Ohsawa	The Investigation Report on Damage Due to the Nagaoka Earthquake.	24	899	1961	301
3045	M. Fukushima M. Tachikawa K. Kume	The Investigation Report on Damage Due to the Hyuganada Earthquake.	24	899	1961	305
3046	The Tohoku Branch of the Architectural Institute of Japan.	General Report on Earthquake Damage in the Northern Miyagi Prefecture.	24	915	1962	497
* 3047 #	E. Isomura, et al.	Facing to the Niigata Disaster.	24	944	1964	527
3048	R. Tanabashi	Architecture and Disaster.	24	951	1965	160
3049	K. Akino S. Tamura H. Honda R. Ura H. Umemura Y. Ohsaki	The Problems Related with the Niigata Earthquake.	24	953	1965	25
* 3050	K. Kamei	A Summary of the Survey of the Ebino Earthquake Disaster.	24	1003	1968	827
* 3051	Y. Ohsawa K. Ogura K. Ohno	Report of the Buildings Damaged by the Off-Tokachi Earthquake.	24	1007	1969	148
3052	H. Umemura	Damage to Buildings Due to the Off-Tokachi Earthquake.	38	V	1968	15

E - 2 - 2 Earthquake Damage to RC Structure, SRC Structure and S Structure

3053	T. Naito	The Investigation Report on Damage to the Reinforced Concrete Structure.	1	100-C-1	1926	185

No.	Author	Title	Source	No. or Vol.	Date	Page
3054	Y. Nagata	The Investigation Report on Damage to the Reinforced "Concrete" Structure.	1	100-C-II	1926	211
*3055	Y. Ohsawa T. Morishita M. Murakami	On the Damage to Window Glass in Reinforced Concrete Buildings during the Earthquake of April 20, 1965.	5	43	1965	819
3056	K. Kanai	The General Report on the Investigation of Damage to Factories Due to the Enshunada Earthquake.	7	4	1945	47
*3057	H. Tanaka T. Okada	Damage to Buildings by '68 Tokachi-Oki Earthquake: Report on Damage to Reinforced Concrete Buildings in Hachinohe City.	11	20	1968	620
*3058	H. Tanaka T. Okada	Analysis of Hachinohe Library Damaged by Tokachi-Oki Earthquake.	11	21	1969	397
*3059	The Building Research Institute.	Niigata Earthquake and Damage to Reinforced Concrete Buildings in Niigata City.	13	42	1965	1
*3060	K. Nakagawa I. Kamei S. Kokusho	Relation Between Wall Amount of Building and Earthquake Damage in Reinforced Concrete Structure.	23	60-1	1958	309
*3061	Y. Awano	Study on the Seismic Resistance of the Building Which Was Not Damaged by the Earthquake of Off-Tokachi.	23	167	1970	43
*3062	T. Okada M. Murakami K. Udagawa, et al.	Analysis of the Hachinohe Library Damaged by '68 Tokachi-Oki Earthquake.	23	167	1970	47
*3063	S. Sugano	Analytical Study on the Mutsu Joint Office of Aomori Prefecture Slightly Damaged by the 1968 Tokachi-oki Earthquake.	23	168	1970	5
*3064	H. Aoyama K. Matsushita	Earthquake Resistance of Reinforced Concrete School Buildings in Tokachi-Oki Earthquake: Comparison of Damaged and Undamaged Building	23	168	1970	11

No.	Author	Title	Source	No. or Vol.	Date	Page
*3065	Y. Higashi M. Okubo T. Nishikawa	Analysis of the Hachinohe Technical College Building Damaged by '68 Tokachi-oki Earthquake.	23	168	1970	17
*3066	T. Nishikawa K. Udagawa,et al.	Analysis of the Hachinohe City Office Damaged by '68 Tokachi-oki Earthquake.	23	169	1970	9
*3067	T. Sugano H. Imai	Analytical Study on the Mutsu City Office Building and Its Damages Due to 1968 Tokachi-oki Earthquake.	23	169	1970	21
*3068	J. Yamashita	On the Seismic Damage of Steel Building Brick Curtain Wall and Reinforced Concrete Construction.	24	447	1923	442
*3069	Y. Nagata	On the Steel Reinforced Concrete Construction.	24	449	1924	538
*3070	M. Doi	On the Seismic Damage and Concrete.	24	449	1924	562
*3071	T. Naito	On the Calamity of the Steel Framed Structure.	24	449	1924	574
*3072	T. Naito	On the Earthquake Damages of Steel Skeleton Structure.	24	468	1925	123
*3073	Y. Nagata	On the Earthquake Damages of the Reinforced Concrete Buildings in the City of Tokyo and Its Suburbs.	24	495	1927	325
3074	H. Umemura	Diagnosis on the Restoration of Buildings Damaged by the Niigata Earthquake.	24	946	1964	715
3075	S. Omote	The Turning-over of Reinforced Concrete Buildings Due to Earthquakes.	25	204	1968	161
*3076	T. Nishikawa K. Udagawa T. Okada H. Tanaka	Analysis of the Hachinohe City Office Damaged by '68 Tokachi-Oki Earthquake.	36	III	1970	779
*3077	T. Okada M. Murakami K. Udagawa H. Tanaka	Analysis of the Hachinohe Library Damaged by '68 Tokachi-oki Earthquake.	36	III	1970	787

No.	Author	Title	Source	No. or Vol.	Date	Page
*3078	H. Aoyama M. Ito S. Sugano S. Nakata	A Study on the Cause of Damage to the Hachinohe Technical College Due to 1968 Tokachi-oki Earthquake (Part I).	36	III	1970	795
*3079	M. Murakami T. Nishikawa H. Aoyama Y. Ohsawa	A Study on the Cause of Damage to the Hachinohe Technical College Due to 1968 Tokachi-Oki Earthquake (Part 2).	36	III	1970	803
*3080	R. Vignola E. Arze	Behavior of a Steel Plant Under Major Earthquakes.	37	II	1960	565
*3081	M.A. Sozen N.M. Newmark G.W. Housner	Implications on Seismic Structural Design of the Evaluation of Damage to the Sheration-Macuto.	37	IV	1969	J2-137
3082	M. Wakabayashi	On the Damages to Several Buildings Occurred within the Nobechi Street.	38	V	1968	151

E - 2 - 3 Damage to Wooden Buildings

3083	T. Sone	Report on the Investigation of the Houses Damaged by the Earthquake in Yamagata Prefecture.	1	3	1895	117
3084	T. Nakamura T. Sone T. Katayama K. Tatsuno	Report on the Investigation of Buildings and Other Structures Damaged by Earthquakes near Tokyo.	1	4	1895	13
3085	K. Tatsuno T. Nakamura	The Investigation Report on Buildings Damaged by the Earthquake in Yamagata Prefecture.	1	7	1895	4
3086	M. Noguchi K. Tatsuno T. Nakamura	The Investigation Report on Buildings Damaged by the Earthquake in Yamagata Prefecture.	1	7	1895	15
3087	Y. Tsukamoto M. Noguchi S. Yamazaki K. Tatsuno T. Katayama T. Nakamura	The Investigation Report on the Conditions of Buildings Damaged by the Earthquakes in Tokyo.	1	7	1895	31

No.	Author	Title	Source	No. or Vol.	Date	Page
3088	M. Noguchi	The Observation Report on Buildings after the Earthquake Disaster in the Yamagata Prefecture.	1	9	1896	5
3089	T. Sone	The Investigation Report on Houses Damaged by the Earthquake that Occurred both in Iwate and Akita Prefecture.	1	11	1897	92
3090	T. Sone	The Investigation Report on Buildings Damaged by Earthquakes in Hiroshima and Ehime Prefectures.	1	53	1906	39
3091	T. Sano	The Investigation Report on the Goshu Earthquake.	1	70	1910	65
3092	A. Imamura	The Rikuu Earthquake of 1896.	1	77	1913	78
3093	S. Uchida	The Investigation Report on Damage to Buildings Resulting from the Kagoshima Earthquake.	1	80	1915	1
3094	A. Imamura	The Investigation Report on the Great Earthquake that Occurred in the Senhoku County of the Akita Prefecture in the 3rd Year of the Taisho Era (1914).	1	82	1915	1
3095	F. Ohmori	On the Damage to Walls of the Kondo at the Horyuji Temple. (Part 3. Investigation of Old Buildings in Japan on their Earthquake Resistance.)	1	88-C	1920	47
3096	F. Ohmori	The Investigation Report on the Shimabara Earthquake.	1	99	1925	1
3097	A. Imamura	The Investigation Report on the Kanto Great Earthquake.	1	100-A	1925	21
3098	S. Nakamura	The Investigation Report on the Kanto Great Earthquake.	1	100-A	1925	67
3099	H. Obata	The Investigation Report on the Kanto Great Earthquake Felt in Both Yamanashi and Tochigi Prefectures.	1	100-A	1925	141
3100	T. Matsuzawa	The Investigation Report on the Earthquake Damage Distribution by Observing Damages to Wooden Buildings.	1	100-A	1925	163
3101	Yokohama City	Table listing the Damage Inflicted in Kanagawa Prefecture by the Earthquake of January 15, 1924.	1	100-A	1925	339
3102	G. Kitazawa	The Investigation Report on Damage to Wooden Buildings.	1	100-C-1	1926	1

No.	Author	Title	Source	No. or Vol.	Date	Page
3103	S. Tanabe	Report on Earthquake Damage and Its Restoration in the Hakone Area.	1	100-D	1926	135
3104	A. Imamura	The Investigation Report on the Tajima Earthquake.	1	101	1927	1
3105	T. Taniguchi	The Investigation Report on Damage to Buildings Resulting from the Tajima Earthquake.	1	101	1927	41
*3106	F. Ohmori	The Ohmachi (Shinano) Earthquake of 1918.	3	10	1922	1
*3107	A. Imamura	The Tajima Earthquake of 1925.	3	10	1928	71
*3108	T. Taniguchi	Damages of Buildings in the Province of Tango Due to a Destructive Earthquake.	5	3	1927	133
*3109	A. Imamura	On the Destructive Tango Earthquake of March 7, 1927.	5	4	1928	179
*3110	T. Hagiwara	The Ogasima Earthquake of May 1st, 1939.	5	17	1939	627
*3111	K. Kanai	On the Damage to Buildings in the Nagoya Earthquake of July 13, 1941.	5	19	1941	647
*3112	T. Saita	The Peculiarities of Dwelling House Construction, and the Earthquake Damages in Zenkoji Plain, Nagoya Prefecture.	5	19	1941	661
*3113	S. Omote	The Tottori Earthquake of March 4, 1943.	5	21	1943	435
*3114	F. Kishinouye	Damages from the Tottori Earthquake on Sept. 10, 1943.	5	23	1945	97
*3115	N. Miyabe	The Degree of Destruction of Wooden Houses by Earthquakes.	5	24	1946	135
*3116	S. Omote	Earthquake Damages in Yokohama City Due to the Great Kanto Earthquake of September 1, 1923.	5	27	1949	57
*3117	K. Kanai T. Tanaka	On the Damage to Buildings by the Imaichi Earthquake of Dec. 26, 1949.	5	28	1950	461
*3118	K. Kanai	On the Damage to Japanese-style Buildings Due to Earthquakes.	5	29	1951	215

No.	Author	Title	Source	No. or Vol.	Date	Page
*3119	F. Kishinouye	A Study of the Shonai Earthquake of 1894.	5	36	1958	227
*3120	Y. Ohsawa M. Yamamoto	On the Damage to Buildings during the Nagoya Earthquake of February 2, 1961.	5	39	1961	549
*3121	Y. Ohsawa	On the Damage to Buildings during the Kita-Mino Earthquake of August 19, 1961.	5	39	1961	869
*3122	Y. Ohsawa Y. Hosoda	On the Damage to Buildings during the Northern Miyagi Earthquake of April 30, 1962.	5	40	1962	639
*3123	Y. Ohsawa	On the Damage to Buildings and Other Structures during the Earthquake of January 23, 1966 in the Vicinity of Matsushiro.	5	44	1966	419
*3124	M. Murakami T. Minami Y. Ohsawa	Damage to Houses Caused by the Earthquake Swarm around Matsushiro.	5	45	1967	551
3125	T. Minakami	Distribution of the Damage Resulting from the Tonankai Earthquake.	7	4	1945	1
3126	S. Miyamura	The General Report on the Investigation of Earthquake Disaster in the Tokai Area Resulting from the Earthquake of December 7, 1944.	7	4	1945	13
3127	K. Kanai T. Tanaka S. Kaneko	The General Report on Damage to Buildings Resulting from the Nankai Great Earthquake of Dec. 21, 1946.	7	5	1947	36
3128	S. Miyamura H. Masuda S. Sakuma	Earthquake Damage in the Hyogo Prefecture, Especially in the Awajishima Island.	7	5	1947	82
3129	Dept. of Earthquake, The Central Meteorological Station.	The Investigation Report on the Kita-Izu Earthquake.	12	4	1930-1931	305
3130	T. Kodaira	The General Report on the Izu Earthquake.	20	2	1930	745
3131	T. Sone	The Investigation Report on Buildings Damaged by Earthquakes in the Yamagata Prefecture.	24	103	1895	167

No.	Author	Title	Source	No. or Vol.	Date	Page
3132	T. Naka	The Investigation Report on Buildings Damaged by Earthquakes in Both Iwate and Akita Prefectures.	24	123	1897	74
3133	C. Kimura	The Record on the Observation Tour in the Earthquake Disaster Area in the Kono Province.	24	275	1909	521
3134	S. Horikoshi	The Investigation Report on the Earthquake Disaster in the Ohmachi Area of the Nagano Prefecture.	24	389	1919	231
*3135	T. Sekino	On the Calamity of the Old Temples and Shrines.	24	451	1924	129
*3136	G. Kitazawa	Damages to the Wooden Houses in the City of Tokyo and Its Suburbs.	24	503	1927	1409
*3137	H. Tanabe K. Muto T. Toki E. Ichimasu S. Jsujii	On the Damages of Buildings in Zuso District Due to the Earthquake on November 26th, 1930.	24	542	1931	97
*3138	H. Tanabe	Effects of Diagonals from the Viewpoint of Earthquake Proof Construction.	24	542	1931	159
*3139	T. Taniguchi	On the Damages of School Buildings in Zuso District Due to the Earthquake.	24	542	1931	173
*3140	T. Suga	A Statistical Study on the Structural Resistivility against Earthquakes of the Farm-houses in Izu Region.	24	566	1933	29
*3141	M. Ohmura E. Sugiyama S. Takeuchi	On the Damages of Buildings in Shizuoka District Due to the Earthquake on July 11th, 1935.	24	605	1935	1296
*3142	K. Muto F. Isaka	On the Damages of Monolithic Bodies and the Damage Percentage of Dwelling Houses by the Shizuoka Earthquake, July 11, 1935.	24	605	1935	1337
*3143	T. Kono R. Takayabu T. Tajime	Damage to Buildings in the Oga Peninsula Earthquake of May 1, 1939.	24	653	1939	1022

No.	Author	Title	Source	No. or Vol.	Date	Page
3144	I. Matsumura	Failure Conditions of Wooden House Subjected to Earthquakes.	38	III	1966	183
3145	Y. Ohsawa T. Minami M. Murakami	On the Damage of Houses Caused by the Hokushin Earthquake.	38	IV	1967	160

E - 2 - 4 Earthquake Damage to Masonry Structures Including "Dozo" (Japanese style warehouse)

3146	K. Sato	The Investigation Report on Damage to Brick Buildings.	1	100-C-I	1926	55
3147	S. Uchida M. Iyoda	The Investigation Report on Damages to Some Brick Buildings	1	100-C-I	1926	179
*3148	F. Ohmori	Example of a Simple Brick Structure Damaged by Earthquake.	3	2	1908	203
*3149	S. Yoshino	On the Damage to Concrete Block Building by Teshikaga Earthquake.	23	63-1	1959	493
*3150	H. Kishida K. Koyama	Soil Profile of Matsushiro and Damage to Dozo (Wooden Plastered Ware House) Due to Matsushiro Earthquakes.	23	Sup.	1967	218
*3151	K. Sato	On the Seismic Damage to the Brick Buildings.	24	38	1924	11

E - 2 - 5 Earthquake Damage to Towers, Water Tanks, Chimneys and Other Structures

3152	Investigation Committee for Earthquake Disaster Prevention.	Report on the Investigation to Prevent the Brick Chimney Hazard.	1	3	1895	69
3153	B. Mano	The Investigation Report on Factory Chimneys Damaged by Earthquakes in and Near Tokyo.	1	5	1895	1
3154	B. Mano	The Investigation Report on Factory Chimneys.	1	14	1897	1
3155	N. Mononobe	The Investigation Report on Earthquake Damage to Chimneys and Tower-Like Structures.	1	100-D	1926	67
3156	S. Tanabe B. Mano	Investigation on the Destroyed Chimneys during the Violent Tokyo Earthquake that Occurred in June in the 27th year of the Meiji Era (18).	2	3	1900	87

No.	Author	Title	Source	No. or Vol.	Date	Page
*3157	Y. Wakazono N. Ando	Report on the Industrial Disaster by Earthquake at Niigata.	9	8	1964	177
*3158	K. Nakagawa K. Kosaka K. Kawagoe	Investigation of a Damaged Chimney.	25	44	1955	54
3159	The Civil Engineering Society of Japan.	The Investigation on Earthquake Damage to Chimneys in the Yokohama City.	27	11	1925	871
*3160	E. Arze	Seismic Failure and Repair of an Elevated Water Tank.	37	IV	1969	B6-57

E - 3 Earthquake Damage to Civil Engineering Structures

E - 3 - 1 General Earthquake Damage to Civil Engineering Structures

3161	S. Tanabe	The Investigation Report on Earthquake Disaster in the Hiroshima Prefecture.	1	53	1906	75
3162	F. Ohmori	On the Stone Fences (The Investigation of Old Buildings in Japan on their Earthquake Resistance - Part 1).	1	88-C	1920	40
3163	F. Ohmori	The Nikko Mountain and Earthquake (The Investigation of Old Buildings in Japan on their Earthquake Resistance - Part 2).	1	88-C	1920	42
3164	N. Mononobe	The Investigation Report on Earthquake Damage to Civil Engineering Construction.	1	100-D	1926	1
3165	K. Kubo	Earthquake Damage to Civil Engineering Structures Resulting from the Niigata Earthquake.	11	16	1964	272
*3166	S. Okamoto C. Tamura	Report on Inspection on Damages Due to the Off-Tokachi (1968) Mainly on Damages to Civil Engineering Structures.	11	20	1968	588
*3167	K. Kubo	Seismic Damages to Civil Engineering Structures in Southern Hokkaido.	11	20	1968	614
3168	T. Ohkubo E. Kuribayashi S. Nan-Un K. Utsu M. Nakagami	The Investigation Report on Damage Due to the Hyuganada Earthquake.	15	113	1962	91

No.	Author	Title	Source	No. or Vol.	Date	Page
3169	M. Fukuoka	The Investigation Report on The Niigata Earthquake; An Introduction.	15	125	1965	1
* 3170	Y. Tada M. Saito M. Ihara T. Matsunami T. Muromachi T. Fujiwara C. Ueda Y. Kobayashi Y. Sato H. Uezawa	Report of Survey of the Niigata Earthquake.	18	448	1964	
* 3171	G. Yamada T. Fujiwara Y. Kobayashi K. Kumagai	Report on Damages to Railways by the Ebino Earthquake Swarm from February to March, 1968.	18	643	1968	
* 3172	G. Yamada T. Takayama T. Muromachi T. Fujiwara Y. Sato Y. Kobayashi	Report on the Tokachioki Earthquake on May 16, 1968.	18	650	1968	
* 3173	S. Okamoto K. Kubo	Damage to Civil Engineering Structures Caused by the Imaichi Earthquake.	26	10	1951	1
3174	G. Nishi S. Samejima	The Report on Earthquake Damage in the Shizuoka Area.	27	21	1935	1469
3175	S. Takai	Inspecting Earthquake Damages in the Akita Prefecture.	27	25	1939	1007
3176	M. Matsumura	Inspecting Earthquake Damages in the Akita Prefecture.	27	25	1939	1017
3177	Investigation Committee on the Tottori Earthquake.	The Investigation Report on the Damage in the Tottori Area Shaken by the Earthquake which Occurred in Sept., 1943.	27	30	1944	117

No.	Author	Title	Source	No. or Vol.	Date	Page
*3178	H. Matsuo H. Matsuo	Damages Caused by Hyuganada Earthquakes.	27	46-8	1961	15
*3179	F. Kawakami	Damage of Structures in North-Miyagi Earthquake.	27	48-11	1963	31
*3180	K. Ono T. Kinai H. Yoshida A. Nakamura	Report on the Investigation of the Off-Echizen-Misaki Earthquake.	27	49-8	1964	65
*3181	F. Kawakami	Outline of Disaster Caused by 1968 Tokachi-oki Earthquake in North-Eastern District.	27	53-7	1968	109
*3182	T. Itakura	Outline of Disaster Caused by 1968 Tokachi-Oki Earthquake in Hokkaido District.	27	53-7	1968	111
3183	S. Okamoto T. Takahashi	The Investigation of the Earthquake by Opinion Survey by Mail (Off-Tokachi, Yoshino, Owashi and Hyuganada Earthquakes).	28	V	1961	3
3184	M. Saito	On the Niigata Earthquake.	28	VII	1964	39
3185	F. Kawakami	On the Damage Caused by the Off-Tokachi Earthquake.	29	16-9	1968	1
3186	S. Yamamoto	Damage to Agricultural Civil Engineering Facilities in Hokkaido Resulting from the Off-Tokachi Earthquake,	38	V	1968	13
3187	F. Kawakami A. Asada Y. Mori	On the Damage to Civil Engineering Structure Resulting from the Earthquakes that Occurred in the Southeastern Part of the Akita Prefecture on Oct. 16, 1970.	38	VIII	1971	149
E - 3 - 2 Earthquake Damage to Dams						
*3188	T. Iwasaki	Survey on Disaster Due to the Tokachi-oki Earthquake, 1968. Chpater 5. Influences on Dams.	15	141	1971	61
3189	K. Takase	Damage to Earth Dam Resulting from Earthquakes.	29	14-10	1966	3
3190	M. Moritani	Study on the Investigation of the Damage to the Earth Dam Resulting from the Off-Tokachi Earthquake of 1968.	29	16-9	1968	39

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3191	T. Kamiya	Earth and Earth-Rock Dams, Engineering Problems of Design and Construction. 1967, Chapt. 2, Failures and Damages, P. 113-199.	29	19-5	1971	40
* 3192	N.N. Ambraseys	On the Seismic Behaviour of Earth Dams.	37	II	1960	331
E - 3 - 3 Earthquake Damage to Port and Harbor Facilities						
3193	H. Matsuo	Damages and Seismic Stability of the Quay Walls in Simizu Harbor Due to the Earthquake on July 11, 1935.	5	13	1935	999
3194	K. Aki	Earthquake Damage to the Yokohama Harbor and Its Repair Works.	27	10	1924	693
3195	T. Shimano	Report on the Earthquake Damage in the Port Shimizu.	27	21	1935	1177
* 3196	M. Hakuno A. Asada	Damage Caused by the Earthquake Off the Oga-Peninsula. -Especially on the Levee of Hachirogata Reclamation Land.-	27	50-3	1965	24
3197	T. Shinohara S. Kurata S. Hayashi K. Kubo N. Miyajima	The Damage to Port and Harbor Resulting from the Niigata Earthquake.	28	VII	1964	7
3198	M. Ohsima K. Terao	Analysis of Earthquake Damage to Structures in Port and Harbor Resulting from the Niigata Earthquake Using the Current Design Method.	28	VIII	1965	21
3199	T. Katayama T. Nakano	Analysis of the Damage to Port and Harbor Resulting from the Off-Tokachi Earthquake of 1968 Using the Current Design Method.	28	X	1969	99
E - 3 - 4 Earthquake Damage to Bridges						
3200	S. Yoshimi I. Ishiguro S. Tanabe	Report on the Investigation of Bridges Damaged by Earthquakes in and near Tokyo.	1	4	1895	91

No.	Author	Title	Source	No. or Vol.	Date	Page
3201	M. Mononobe	The Investigation Report on Damages to Highway Bridges in the Yokohama City.	1	100-D	1926	109
3202	K. Kubo	Bridges and Earthquake Damage.	11	12	1960	263
3203	H. Yoshikawa K. Yamamura O. Toyoshima A. Tsuchiya T. Ohkubo	Damage to Rivers and Related Items (The Niigata Earthquake).	15	125	1965	83
3204	T. Takada Y. Tada I. Yoshida E. Kuribayashi	Damage to Bridges and Their Related Facilities (The Niigata Earthquake).	15	125	1965	173
* 3205	M. Yabe	Survey on Disaster Due to the Tokachi-oki Earthquake of 1968. Chapt. 4. Damage on Dikes and Revetments.	15	141	1971	47
* 3206	I. Yoshida Y. Adachi	Survey on Disaster Due to the Tokachi-Oki Earthquake of 1968. Chapt. 7. Earthquake Effects on Highway Bridges.	15	141	1971	79
3207	S. Takeuchi	Earthquake Damage to and Emergency Measures for Highway Bridges in the City of Tokyo.	27	10	1924	239
* 3208	T. Ishihara I. Konishi M. Hatanaka H. Goto	Vibration Characteristics of the Nakatsuno Bridge and One Consideration About the Mechanism of Earthquake-Disaster of Bridges.	27	35-8	1950	25
3209	J. Kodera	The Characteristics of Earthquake Damages to Girders and Bridge Piers.	28	V	1961	27
3210	I. Yoshida	An Example of Damage to a Reinforced Concrete Pile Resulting from the Niigata Earthquake.	28	VIII	1965	11
3211	J. Kodera	Earthquake Damage to the Bridge Foundation and the Ground (Part I).	29	12-3	1964	11
3212	J. Kodera	Earthquake Damage to the Bridge Foundation and the Ground (Part II).	29	12-4	1964	9

No.	Author	Title	Source	No. or Vol.	Date	Page
3213	J. Kodera	Earthquake Damage to the Bridge Foundation and the Ground (Part 3).	29	12-5	1964	17
3214	J. Kodera	Earthquake Damage to the Bridge Foundation and the Ground (Part 4).	29	12-6	1964	25
3215	J. Kodera	Influence of Earthquake Damage to Ground and Foundation on the Bridge - In Relation to the Niigata Earthquake.	29	12-8	1964	27
*3216	J. Kodera	How to Apply the Experience of the Earthquake Failures to the Design of the Piers.	36	I	1962	129
*3217	Y. Tada I. Yoshida E. Kuribayashi	On the Damage to Bridges Caused by the Niigata Earthquake.	36	II	1966	385
*3218	J. Kodera	Some Tendencies in the Failures of Bridges and Their Foundations.	37	III	1965	V-86
E - 3 - 5 Earthquake Damage to Railroads						
3219	K. Haraguchi	The Investigation Report on the Damage Infricted on the Railroads by the Nobi Earthquake.	1	1	1893	33
3220	S. Tanabe	Report on Earthquake Disaster in the Ohmi Area.	1	69	1910	27
3221	M. Naha	The Investigation Report on Earthquake Damage to the National Railways.	1	100-D	1926	145
3222	M. Naha	The Investigation Report on Damage to Railways Resulting from the Tajima Earthquake.	1	101	1927	39
*3223	R. Takahasi	On the Sinuous Buckling of Rails.	6	3-1	1936	148
3224	S. Takagi	On the Sinous Deformation of Rails Caused by the Tottori Earthquake of September 10th, 1943.	12	14-2	1948	1

No.	Author	Title	Source	No. or Vol.	Date	Page
3225	C. Soyama	Earthquake Damage to and Emergency Measures Taken for the Tram Cars in Tokyo City.	27	10	1924	207
3226	M. Kagayama	Earthquake Damage to and Emergency Measures Taken for Railways.	27	10	1924	221
3227	The Maintenance Section of the Engineering Dept., The Ministry of Transportation.	The General Condition of Earthquake Damage to National Railways in the Shizuoka Area.	27	21	1935	1175
3228	Committee on Earthquake Resistance Engineering, Japan Society of Civil Engineering.	Data on the Basis of Questionaires Taken from the Crew Who Stopped the Trains at the Time of the Niigata Earthquake.	27	50-4	1965	56
3229	K. Nakamura S. Nakajima	On the Damage to the Tohoku Main Line Resulting from the Off-Tokachi Earthquake.	29	16-11	1968	19
E - 3 - 6 Earthquake Damage to Roads						
* 3230	Y. Sasaki T. Iijima	Survey on Disaster Due to the Tokachi-oki Earthquake, 1968. Chapter 6. Damage to Highway Embankments and Pavements.	15	141	1971	67
E - 3 - 7 Earthquake Damage to Tunnels						
3231	S. Ibukiyama K. Ichihara K. Sawada H. Fujii A. Shimazu T. Ogawa N. Nagatomo T. Imada	Damage to Roads and Tunnels (The Niigata Earthquake).	15	125	1965	141
E - 3 - 8 Earthquake Damage to Underground Structures						
3232	F. Ohmori	On the Earthquake Damage to Steel Pipes for Water Supply.	1	88-C	1920	11

No.	Author	Title	Source	No. or Vol.	Date	Page
3233	O. Ogawa	Investigation Report on Earthquake Damage to the Water Supply System in Tokyo.	1	100-D	1926	215
3234	A. Sugiki K. Murakami	Damage to the Sewerage System (The Niigita Earthquake).	15	125	1965	321
3235	F. Ohmori	On the Earthquake Damage to the Steel Pipes for Water Supply.	27	6	1920	759
3236	O. Ogawa	Earthquake Damage to and Emergency Measures Taken for the Water Supply System in Tokyo City.	27	10	1924	229
3237	J. Matsumoto N. Hasegawa Y. Honda	Damage to the Water Supply System Resulting from the Off-Tokachi Earthquake in 1968.	38	V	1968	145
		E - 4 Earthquake Damage to Structures and the Ground				
* 3238	S. Yoshimura S. Yamamoto	The Underground Water in the Vicinity of Chiba City with Special Reference to Earthquake Damages.	5	16	1938	212
* 3239	T. Minakami S. Uchibori	The To-Nan-Kai Earthquake Damage and After-shocks.	5	24	1946	19
* 3240	S. Omote	Comparison of the Vulnerability Rates of the Ground Revealed in Tonankai and Mikawa Earthquakes.	5	24	1946	87
* 3241	S. Miyamura	Geographische Verteilung der Gebsudeschoden des Tokaido Bebens vom 7, Dez. 1944.	5	24	1946	99
* 3242	S. Omote	The Relation between the Earthquake Damages and the Structure of Ground in Yokohama.	5	27	1949	63
* 3243	K. Kanai	Relation between the Earthquake Damage of Non-Wooden Buildings and the Nature of the Ground. I.	5	27	1949	97
* 3244	S. Omote S. Miyamura	Relations between the Earthquake Damage and the Structure of Ground in Nagoya City.	5	29	1951	183
* 3245	K. Kanai S. Yoshizawa	Relation between the Earthquake Damage of Non-Wooden Buildings and the Nature of the Ground. II.	5	29	1951	209

	No.	Author	Title	Source	No. or Vol.	Date	Page
*	3246	K. Kanai T. Tanaka T. Suzuki	Relation between the Earthquake Damage and the Nature of the Ground. I.	5	31	1953	57
*	3247	S. Ohba	Study of the Relation between the Subsoil Conditions and the Distribution of the Damage Percentage of Wooden Dwelling Houses in the Province of Totomi in the Case of the Tonankai Earthquake of December 7th, 1944.	5	35	1957	201
*	3248	K. Kanai K. Osada	Seismic Characteristics in Ground of Mountainous Formation. (Observation of the After Shocks of the Kita - Mino Earthquake.)	5	39	1961	943
*	3249	K. Kanai T. Morishita	Relation between Earthquake Damage and Nature of the Ground. II. (Case of Nagaoka Earthquake).	5	41	1963	271
*	3250	T. Tanaka K. Osada Y. Ohsawa	On the Damage to Buildings during the Hyuganada Earthquake of April 1, 1968.	5	46	1968	1169
*	3251	R. Tanabashi H. Ishizaki	Earthquake Damages and Elastic Properties of Ground.	8	3	1953	4
*	3252	S. Yoshikawa M. Shima N. Goto	On the Seismic Prospecting at the Area Damaged by Niigata Earthquake.	9	8	1964	11
*	3253	S. Yoshikawa M. Shima N. Goto	On the Exploration of the Ground by Use of Vibrator of the Damaged Areas by the Niigata Earthquake.	9	8	1964	19
*	3254	S. Yoshikawa M. Shima N. Goto K. Irikura J. Akamatsu	Investigation on Vibrational Characteristics of the Ground in the Region of Ebino and Yoshimatsu(I).	9	12-A	1969	33
*	3255	Y. Yokoo K. Miyagawa	Earthquake Damages and Earthground in Kyoto.	9	12-A	1969	463
	3256	The Study Group for the Abnormal Ground.	Study on the Measures for Earthquake Damages to the Abnormally Soft Ground.	13	55	1969	1

No.	Author	Title	Source	No. or Vol.	Date	Page
3257	S. Omote N. Nakajima	The Investigation Report on Earthquake Damages Due to the Off-Tokachi Earthquake of 1968 (Part 2) - The Correlation between the Measured Microtremors at Various Grounds and Buildings in the Aomori Prefecture and Damages Due to the Off-Tokachi Earthquake.	13	57	1970	1
3258	A. Terashima K. Kojima M. Watari A. Sakai	The Niigata Earthquake and Characteristics of the Ground.	15	125	1965	5
3259	T. Saita	The Relationship between Earthquake Damages Due to the Kohno Earthquake of 1909 and the Ground.	21	8	1936	563
3260	T. Saita	The Modification of the Traditional Theory on the Quality of the Ground and Earthquake Damage.	21	10	1938	114
*3261	K. Kanai	On the Natures of Seismic Vibrations.	21	II-1	1948	44
*3262	G. Kitazawa	On the Relation between Earthquake Damages and the Hardness of the Ground.	21	II-1	1948	48
*3263	S. Omote	Earthquake Damages and Its Relation to the Structures of Earthground.	21	II-2	1949	1
3264	K. Kanai	On the Relationship between the Ground Properties and Damages to Buildings.	22	12	1951	85
*3265	Y. Ohsaki K. Kuniyasu	Earthquake Damage to Reinforced Concrete Buildings and Subsoil Condition: Review of Damage by Kanto Earthquake 1923.	23	148	1968	33
*3266	H. Yamahara	The Frequency Characteristic of Ground and the Earthquake Damage to Structure.	23	165	1969	53
*3267	H. Kagami H. Kobayashi	Distribution of Ground Motions during the Kanto Earthquake 1923 in Kawasaki.	23	176	1970	17
*3268	# Y. Yokoo, et al.	Relations between the Earthquake Damages and the Ground Structure around Nagoya - Part 1.	23	Sup.	1965	166
*3269	# T. Horiuchi, et al.	Relations between the Earthquake Damages and the Ground Structure around Nagoya - Part 2.	23	Sup.	1965	167

No.	Author	Title	Source	NO. or Vol.	Date	Page
* 3270	K. Kuniyasu Y. Ohsaki	Earthquake Damage to Reinforced Concrete Buildings and Subsoil Conditions - Review of Damage in Kanto Earthquake 1923.	23	Sup.	1967	219
* 3271	K. Inouye	On the Geology and the Seismic Damage.	24	447	1923	414
* 3272	Y. Tsukamoto	On the Reclaimed Land and the Seismic Damage.	24	449	1924	518
* 3273	K. Nishio	The Special Geological Structures in Tokyo and Their Influence on the Damages of Earthquakes.	24	551	1931	1741
* 3274	S. Omote S. Miyamura	Study of Relationship between Earthquake Damage Distribution and the Underground Formation in Yokohama and Nagoya.	24	773	1951	17
* 3275	R. Tanabashi	Relationship of the Nature of the Underground Formation Measured by the Elastic Wave and the Earthquake Damage.	24	773	1951	23
* 3276	R. Tanabashi	Underground Formation in Kyoto, Osaka and Kobe from the Standpoint of Earthquake Catastrophe.	24	773	1951	26
* 3277	Y. Ohsaki	Subsoil Conditions and Planning of Building Structures.	24	919	1962	671
* 3278	Y. Ohsaki	Damages to Reinforced-Concrete Buildings and Unusual Behaviors of Subsoil.	24	944	1964	538
* 3279	Y. Ohsaki	How Should Building Engineers Confront Bad Soil Conditions. (Part 1).	25	70	1957	24
* 3279'	Y. Ohsaki	How Should Building Engineers Confront Bad Soil Conditions. (Part 2).	25	71	1957	75
* 3280	Y. Ohsaki	The Sandy Ground Dangerous in an Earthquake.	25	179	1966	67
3281	J. Kodera	The Relationship between Damages to the Bridge Foundation and the Type of Ground.	28	VI	1963	27
3282	Y. Ohsaki	On the Niigata Earthquake: Damages to the Reinforced Concrete Building and the Behaviour of the Ground.	28	VII	1964	35
3283	H. Kano	Earthquake Damage to the Akita City and the Soft Ground.	29	12-8	1964	21

No.	Author	Title	Source	No. or Vol.	Date	Page
3284	T. Yamauchi	The Ebino Earthquake and the "Shirasu" (White Sand Alluvium).	29	16-5	1968	1
3285	Y. Ohsaki	The Ground Conditions and Earthquake Damages.	29	18-10	1970	55
* 3286	H. Yamahara H. Watanabe K. Fujii K. Ichinose	The Frequency Characteristic of Ground and the Earthquake Damage of Structure.	32	14	1969	53
* 3287	Y. Yokoo T. Kuwahara T. Horiuchi	On the Seismic Disasters and Earthground of Nagoya City and Its Vicinity.	36	II	1966	373
* 3288	Subsoil Research Team of the Earthquake Research Institute.	Earthquake Damage and Subsoil Conditions as Observed in Certain Districts of Japan.	87	II	1960	311
3289	K. Takeyama	Soft Ground and Urban Disaster.	38	I	1964	101
3290	K. Kanai	On Earthquake Damages and the Ground (Conditions)	38	I	1964	104
3291	T. Kanakubo M. Kobayashi M. Minobe H. Magome	The Niigata Earthquake - Correlation between the Damage and the Ground Condition.	38	II	1965	141
3292	S. Fujii	The Area Vulnerable to Earthquake Damage in the Imizu Heiya Plain (Toyama Prefecture); The Area Vulnerable to Earthquake Damage in the Alluvum Plain.	38	II	1965	153
3293	M. Nogoshi T. Saijo K. Naritomi	The Preliminary Investigation on the Ground Vibration in the Hachirogata Lagoon. (Part 2)	38	IV	1967	114
3294	Y. Yokoo T. Kuwahara T. Horiuchi	Ground and Earthquake Damage.	38	IV	1967	140

No.	Author	Title	Source	No. or Vol.	Date	Page
3295	R. Morimoto H. Takahashi	The Distribution of Damages to the City of Hakodate Resulting from the Off-Tokachi Earthquake of 1968 and Damage Distribution in the Old Map.	38	V	1968	129
3296	T. Tanaka K. Nagata	The Comparison of Earthquake Ground Motions on Different Grounds in Hachinohe.	38	V	1968	141
3297	M. Yoshikawa M. Shima N. Goto K. Irikura J. Akamatsu	Vibration Characteristics of the Ground in the Damaged Area by the Ebino Earthquake.	38	V	1968	191
3298	M. Nogoshi T. Igarashi	On the Amplitude Characteristics of Tremors and Earthquake Damages.	38	VII	1970	59

E - 5 Earthquake Damage to the Ground

E - 5 - 1 General Subjects on Earthquake Damage to the Ground

No.	Author	Title	Source	No. or Vol.	Date	Page
3299	T. Kochibe	Report on the Earthquake Damage Survey in Akita Prefecture.	1	11	1897	75
3300	N. Yamazaki	The Investigation Report on Damages Due to the Tajima Earthquake.	1	101	1927	31
* 3301	F. Ohmori	Note on the Great Mino-Owari Earthquake of Oct. 28th, 1891.	2	4	1900	13
* 3302	F. Ohmori	Note on the Tokyo Earthquake of June 20th, 1894.	2	4	1900	25
* 3303	F. Ohmori	The Sakura-jima Eruptions and Earthquakes. VI.	3	8	1922	467
* 3304	F. Ohmori	On the Shimabara Earthquake of December 8, 1922.	4	10	1928	43
* 3305	F. Ohmori	The Semi-Destructive Earthquake of April 26, 1922.	5	3	1922	1
* 3306	T. Matsuzawa	Report of Inspection of the Strong Echigo Earthquake on Oct. 27, 1927.	5	5	1928	29
* 3307	F. Kishinouye	Report of the Strong Earthquake in the Southwestern Part of Kaga Province, Oct. 17, 1930.	5	9	1931	216

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3308	T. Suzuki	Report of the Strong Noto Earthquake of Sept. 21, 1933.	5	12	1934	44
* 3309	T. Fukutomi	Report of the Strong Idu Earthquake of March, 21, 1934.	5	12	1934	527
* 3310	N. Nasu C. Yasuda	The Sizuoka Earthquake of July 11, 1935.	5	13	1935	942
* 3311	N. Miyabe	Some Phenomena Associated with the Kawachi-Yamato Earthquake of Feb. 21, 1936.	5	14	1936	297
* 3312	T. Minakami	The Hinomisaki-Oki Earthquake of January 12, 1938.	5	16	1938	470
* 3313	Y. Ohtuka	On the Earthquakes that Occurred in November, 1938, on the Pacific Coast of Northeastern Japan.	5	17	1939	168
* 3314	F. Kishinouye I. Onda	Field Studies of the Kita-Mino Earthquakes on August 19, 1961.	5	39	1961	857
3315	Y. Hagiwara T. Watabe T. Yukitake Y. Sasai	Investigation Report on Earthquake Damages to Shioya, Kanbayashi Village, Iwafuna County, Niigata Prefecture.	7	8	1964	130
3316	S. Fujiwara	The Survey Report on the Kita-Izu Earthquake.	12	4	1930-1931	335
3317	S. Kunitami K. Hayada	The Survey Report on the Kita-Izu Earthquake.	12	4	1930-1931	351
3318	H. Honda H. Fuchi	The Survey Report on the Area Shaken by the Kita-Izu Earthquake.	12	4	1930-1931	357
3319	K. Sagisaka T. Kizawa	The Survey Report on the Kita-Izu Earthquake.	12	4	1930-1931	365
3320	T. Ishikawa H. Miura	The Field Survey Report on the Kita-Izu Earthquake.	12	4	1930-1931	373
3321	I. Fujimura R. Kato	The Survey Report on the Kita-Izu Earthquake.	12	4	1930-1931	397
3322	Kumagai Meteorological Station.	Report on the West Saitama Strong Earthquake.	12	5	1931-1932	277

No.	Author	Title	Source	No. or Vol.	Date	Page
3323	K. Sagisaka Y. Homma A. Ikusawa H. Ito	The Field Survey Report on the Hyuganada Earthquake that Occurred on Nov. 19, 1941.	12	12	1942	162
3324	W. Inoue	On the Mikawa Earthquake of Jan. 13, 1945.	12	14-3,4	1950	49
3325	T. Hirono S. Homma Y. Iwai I. Noyori U. Sekiguchi	The Field Survey on the Area Shaken by the Violent Earthquake that Occurred in Mikawa on Jan. 13, 1945.	12	15-3,4	1951	12
3326	Ishigakijima Meteorological Station.	On the Ishigakijima Earthquake of Sept. 27th, 1947.	12	15-3,4	1951	26
3327	The Central Meteorological Station.	The Investigation Report on the Off-Tokachi Earthquake that Occurred in March, 1952.	12	17-1,2	1953	
* 3328	Niigata L.M.O. Nagoya Weather Message Station.	The Nagaoka Earthquake of Feb. 2, 1961.	12	26-3	1961	5
* 3329	The Meteorological Agency.	The Hyuganada Earthquake of Feb. 27, 1961.	12	26-3	1961	21
* 3330	The Meteorological Agency.	The Kitamino Earthquake of August 19, 1961.	12	27-2	1962	1
* 3331	Sapporo D.M.O. Obihiro Weather Station.	The Hiroo-oki Earthquake of April 23, 1962.	12	27-2	1962	27
* 3332	Sendai D.M.O.	The Earthquake in the Northern Part of Miyagi Prefecture on April 30, 1962.	12	27-2	1962	37
* 3333	Tsuruga Weather Station.	Damage Caused by the Earthquake Off Cape Echizen on March 27, 1963.	12	28-3	1964	27

No.	Author	Title	Source	No. or Vol.	Date	Page
*3334	D.M.O. Sendai	The Earthquake of May 7, 1964 in the Westward Region Off Aomori Prefecture.	12	30-4	1967	17
*3335	L.M.O. Kushiro	On the Earthquake Occurred near Teshikaga of August 31, 1965.	12	32-2	1968	15
*3336	T. Terashima	The Report of Disaster by 1968 Tokachi-Oki Earthquake.	13	54	1969	1
3337	K. Musha	The Earthquake that Occurred in Provinces of Ise and Ohmi in the Second Year of the Bunsei Era (1819).	21	3	1931	528
3338	T. Matsuzawa	The Field Survey Report on the Shizuoka Earthquake.	21	7	1935	578
3339	H. Tsuya	The Investigation Report on the Kussharo Earthquake of May 29th, 1938.	21	10	1938	285
3340	S. Kunitomi	On the North Idzu Earthquake.	24	543	1931	251
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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E - 7 Fire Disaster Due to Earthquake

E - 7 - 1 Fire Disaster Due to Earthquake

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3388	S. Inada	Fire Damages to Cable and Radio Communication Systems and Telephones Resulting from Earthquake.	1	100-D	1926	289
3389	I. Ogata	The Great Tokyo Fire Resulting from the Kanto Great Earthquake.	1	100-E	1925	1
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3392	T. Terada	On the Tornado of Sept. 2nd, in 1923.	1	100-E	1925	185
3393	R. Takeuchi	The Investigation Report on Deaths and Casualties Caused by the Fire Following the Great Earthquake of September, 1923.	1	100-E	1925	229
3394	A. Imamura	Fire Disasters in Various Regions Resulting from the Kanto Great Earthquake.	1	100-E	1925	271
3395	Investigation Committee for the Prevention of Earthquake Disasters.	The Collection of Reports from Various Regions on Flying and Falling Debrises from Fire Disaster Areas.	1	100-E	1925	281
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No.	Author	Title	Source	No. or Vol.	Date	Page
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3408	K. Moroto	On the Trees for the Purpose of the Fire Prevention.	1	100-E	1925	269
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No.	Author	Title	Source	No. or Vol.	Date	Page
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F - 1 Earthquake Resistant Structure, Earthquake Resistant Design in General

No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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F - 4 Design Earthquake Motion

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*3536	H. Kobayashi T. Hayashi	Shear Force Distribution of the Building during Earthquake, Part 1.	23	76	1962	85
*3537	H. Kobayashi T. Hayashi	Shear Force Distribution of the Building during Earthquake, Part 2.	23	76	1962	86
*3538	T. Taniguchi	Formulas of Base Shear Coefficient and Period Applied in Earthquake Design of Tall Buildings.	23	79	1962	1
*3539	T. Odaka F. Horie	Plastic Vibrations of Building (On the Seismic Coefficient for Plastic Design of One Story Buildings).	23	79	1962	6
3540	K. Kaneta T. Taniguchi	Discussion on "Design Seismic Intensity Formula and Period Formula for Tall Buildings (No. 79, November, 1962.)"	23	83	1963	37
*3541	T. Odaka F. Horie	Approximate Method for Determining the Optimum Value in Dynamical Steady State Response of Non-linear Systems.	23	101	1964	7
*3542	H. Narita	Distribution of Lateral Force Coefficient, Story Shear and Story Shear Coefficient on Multistory Building Assumed as an Equelivalent Continuous Vibratory System (1).	23	123	1966	1
*3543	H. Narita	Distribution of Lateral Force Coefficient, Story Shear and Story Shear Coefficient on Multistory Building Assumed as an Equivalent Continuous Vibratory System (2).	23	124	1966	17
*3544	T. Suzuki A. Odaka	Consideration of the Distribution of the Shearing Force Coefficient for Design.	23	Sup.	1966	159
*3545	Y. Nishimura Y. Gyoten	Effect of Vertical Load to Optimum Value of Earthquake Response - To One Mass System.	23	Sup.	1967	189
3546	H. Mamizu	A Question to Dr. Tanabe Concerning the Seismic Wave Amplitude.	24	62	1892	33

No.	Author	Title	Source	No. or Vol.	Date	Page
3547	S. Tanabe	On the Seismic Wave Amplitude	24	63	1892	60
3548	H. Mamizu	Further Questions for Dr. Tanabe.	24	64	1892	91
3549	S. Tanabe	On the Seismic Wave Amplitude.	24	65	1892	121
3550	Y. Ohtsuki	Reevaluation of Seismic Intensity Responding to the International Trend.	24	865	1958	37
* 3551	R. Minai	Seismic Coefficient and Shear Coefficient.	24	1025	1970	457
3552	H. Narita	A Proposal for Design Earthquake Load (First Volume).	25	217	1969	155
3553	H. Narita	A Proposal for Design Earthquake Load (Second Volume).	25	220	1969	165
* 3554	H. Kobayashi	Seismic Coefficient of Building Determined by Frequency of Earthquake.	36	I	1962	39
* 3555	H. Tajimi	An Approximate Method of Determining the Optimum Lateral Strength of Structures for Aseismic Design.	36	I	1962	75
* 3556	T. Taniguchi	Formulae of Base Shear Coefficient and Period Applied to Earthuquake Design of Tall Buildings.	36	I	1962	111
* 3557	J.E. Rinne	Design Criteria for Shear and Overturning Moment.	37	II	1960	1709
F - 4 - 2 Seismic Wave Form						
* 3558	K. Kanai	A Study of Strong Earthquake Motions.	5	36	1958	295
* 3559	K. Kanai	An Empirical Formula for the Spectrum of Strong Earthquake Motions.	5	39	1961	85
* 3560	K. Kanai	On the Spectrum of Strong Earthquake Motions.	5	40	1962	71
* 3561	K. Kanai S. Yoshizawa T. Suzuki	An Empirical Formula for the Spectrum of Strong Earthquake Motions. II.	5	41	1963	261

No.	Author	Title	Source	No. or Vol.	Date	Page
*3562	S. Yoshizawa T. Tanaka K. Kanai	Some Features of Strong Underground Earthquake Motions Computed from Observed Surface Records.	5	46	1968	667
*3563	R. Tanabashi T. Kobori K. Kaneta R. Minai	Statistical Properties of Earthquake Accelerogram and Equivalent Earthquake Excitation Pattern.	8	14-2	1965	49
*3564	K. Toki	Simulation of Earthquake Motion and Its Application.	9	11-A	1968	291
*3565	T. Kobori R. Minai Y. Inoue Y. Takeuchi	On Spectral Characteristics of Artificial Earthquakes Generated for Structural Response Analysis.	9	11-A	1968	369
*3566	M. Watabe	Simulated Earthquake Acceleration Recorded for Dynamic Analysis of Structure.	14	6	1969	95
*3567	T. Kobori R. Minai Y. Takeuchi	Statistical Analysis of Seismic Waves.	23	89	1963	192
*3568	H. Kobayashi H. Kagami	A Method of Calculation of Ground Motion for Response Analysis.	23	Sup.	1967	160
*3569	# M. Kawano, et al.	Characteristics of Pseudo-Earthquake Ground Motion - Part 1.	23	Sup.	1967	161
*3570	# Y. Inouye, et al.	Characteristics of Pseudo-Earthquake Ground Motion - Part 2.	23	Sup.	1967	162
*3571	H. Kagami H. Kobayashi	Study of Motions at Bed Rock Assumed from Strong Earthquake Motions.	23	Sup.	1967	163
*3572	# K. Kanai, et al.	Strong Earthquake Motions on the Bed Rocks.	23	Sup.	1967	164
*3573	H. Kobayashi S. Nagahashi	Evaluation of Earthquake Intensity Based on Damage of Wooden Buildings.	23	163	1969	19
*3574	H. Tajimi	A Note on Estimation of Probable Accelerations in Bedrock.	23	169	1970	63

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3575	H. Kagami H. Kobayashi	Amplification of the Earthquake Motion in Multi-Layered Ground Caused by Multiple Reflection of Shear Waves.	23	173	1970	31
* 3576	H. Yamahara	Specific Characteristics of Earthquake and a Prediction of Earthquake Motion on a Ground Surface (Part 1).	23	175	1970	31
* 3577	H. Yamahara	Specific Characteristics of Earthquake and Prediction of Earthquake Motion on a Ground Surface (Part 2).	23	176	1970	51
* 3578	H. Yamahara	Seismic Ground Movement.	24	1025	1970	435
* 3579	H. Kobayashi	Seismic Force to be Adopted in Antiseismic Design.	24	1025	1970	437
* 3580	T. Katayama	Characteristics of Simulated Earthquake Motions.	26	162	1969	1
3581	K. Kanai	Study on Seismic Wave Form to be Used for Earthquake Resistant Design.	28	IX	1967	67
3582	H. Goto K. Toki	Simulation of Earthquake Ground Motion and Its Application.	28	IX	1967	75
* 3583	H. Yamahara	Ground Motions During Earthquake and the Input Loss of Earthquake for Building Response.	32	14	1969	61
3584	H. Yamahara M. Hirose T. Ito	Estimation of Ground Surface Motion Taking the Vibration Characteristics of the Ground into Consideration.	32	15	1970	13
3585	H. Kawasumi E. Shima	A Standard Strong Motion Earthquake to be Used in Seismic Design.	36	I	1962	13
* 3586	H. Goto K. Toki T. Akiyoshi	Generation of Artificial Earthquakes on Digital Computer for Aseismic Design of Structures.	36	II	1966	25
* 3587	K. Matsushita H. Kishida	On the Approximate Estimation of Earthquake Forces Proposed to be Applied to Buildings with Special Reference to Elastic Properties of Soils.	36	II	1966	43
* 3588	H. Kagami H. Kobayashi	Inferential Analysis of Ground Motions during the Kanto Earthquake, 1923.	36	III	1970	215

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3589	M. Iguchi	Input Earthquake Motion to Structure and Response Analysis with Consideration of the Size.	36	III	1970	231
* 3590	H. Kobayashi S. Nagahashi	Evaluation of Earthquake Intensity for Anti-Seismic Design of Structure.	36	III	1970	715
* 3591	F. Neumann	A Broad Formula for Estimating Earthquake Forces on Oscillators.	37	II	1960	849
* 3592	K. Kanai	An Empirical Formula for the Spectrum of Strong Earthquake Motion.	37	II	1960	1541
* 3593	J.A. Blume	Earthquake Ground Motion and Engineering Procedures for Important Installations near Active Faults.	37	III	1965	IV-53
* 3594	P.C. Jennings G.W. Housner N.C. Tsai	Simulated Earthquake Motions for Design Purposes.	37	IV	1965	A1-145
* 3595	K. Kanai	On the Earthquake Motions for Aseismic Designing.	37	IV	1969	A2-18
* 3596	K. Matsushita M. Izumi K-J. Hsu I. Sakamoto	Factors to be Considered in Calculating the Input Earthquake Force to Buildings.	37	IV	1969	B5-29
* 3597	J.R. Benjamin	A Probabilistic Model for Seismic Force Design.	37	IV	1969	B5-131
3598	H. Shibata	Use of the Response Wave of a Multi-Mass Particle System as a Simulated Earthquake Wave.	38	I	1964	114
3599	H. Kobayashi H. Kagami	A Study on Foundation Ground for Earthquake.	38	III	1966	160
3600	I. Muramatsu	On the Spectral Characteristics of Strong Motion Earthquake,	38	IV	1967	129
3601	Y. Ohta E. Shima	On the Foundation Ground for Earthquake (Part 1).	38	IV	1967	133
3602	H. Kobayashi H. Kagami	A Study on Characteristics of Earthquake Motion on Firm Ground.	38	IV	1967	136

No.	Author	Title	Source	No. or Vol.	Date	Page
		F - 5 Seismic Responses				
* 3603	Y. Ohsawa	Response Analysis of Tall Buildings to Strong Earthquake Motions. Part 1: Linear Response of Core-Wall Buildings.	5	43	1965	803
* 3604	Y. Ohsawa M. Murakami	Response Analysis of Tall Buildings to Strong Earthquake Motions. Part 2: Comparison with Strong Motion Accelerograms.(1).	5	44	1966	233
* 3605	R. Tanabashi T. Kobori R. Minai	Aseismic Design and Earthquake Response of Structure.	9	5-B	1961	1
* 3605'	T. Kobori R. Minai	Elasto-Plastic Response and Seismic Design of Skyscraper.	9	6	1962	44
* 3606	T. Kobori R. Minai Y. Inoue T. Hisatoku	Earthquake Response Analysis and Anti-Seismic Design Data of Multi-Story, Elasto-plastic Building Structure.	9	9	1965	137
* 3607	T. Kobori R. Minai T. Suzuki	Earthquake Response of Frame Structure Having Elasto-Plastic Joints.	9	9	1965	165
* 3608	T. Kobori R. Minai	Linearization Technique for Evaluating the Elasto-plastic Response of a Structural System to Non-Stationary Random Excitations.	9	10-A	1967	235
* 3609	T. Kobori R. Minai Y. Inoue T. Hisatoku	On the Optimum Aseismatic Design Data of Multi-Story Structure Based on Earthquake Elastic Response.	9	11-A	1968	439
* 3610	T. Kobori R. Minai T. Fuziwara	Earthquake Responses of a Frame Structure Having Elasto-plastic Joints: Relations Between Distributions of Elastic Limit Strength of Members and of Their Responses.	9	12-A	1969	321

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3611	T. Kobori R. Minai Y. Inoue T. Hisatoku	On the Optimum Aseismic Design Data of Tall Building Structures Based on the Elasto-Plastic Earthquake Response.	9	12-A	1969	339
* 3612	T. Kobori R. Minai T. Fujiwara	Torsional Response of Framed Structures Considering a Yield Surface in Elasto-Plastic Joints.	9	13-A	1970	287
* 3613	T. Kobori R. Minai M. Kawano	On the Statistical Aseismic Design Determining the Optimum Dynamic Characteristics of Structure.	9	13-A	1970	303
* 3614	H. Sato T. Muto	On an Approach for the Nonstationary Characteristics of Earthquake Records.	11	17	1965	331
* 3615	H. Sato T. Muto	On the Confidence Intervals of the Acceleration Amplification Factor of Response Spectrum.	11	20	1968	289
* 3616	T. Hisada K. Nakagawa M. Izumi	Earthquake Response of Tall Buildings.	13	46	1965	1
* 3617	T. Hisada K. Nakagawa M. Izumi	Normalized Acceleration Spectra for Earthquakes Recorded by Strong Motion Accelerographs and Their Characteristics Related with Sub-soil Conditions.	13	46	1965	31
3618	H. Tsutsumi H. Hashimoto	Response of Structures Constructed on the Soft Ground to Earthquakes that Occurred in the Neighboring Area.	19	65053	1965	
3619	T. Kono	Earthquake Resistance Calculation Method by the Use of Vibration Theory.	20	1	1937	30
3620	H. Umemura A. Suzuki	Seismic Intensity to be Used for a Building with a Partial Second Floor. (First Report)	22	2	1949	45
* 3621	H. Tajimi	Estimation of the Maximum Response of Building to Earthquake Motions by the Statistical Method.	23	60-1	1958	249
* 3622	T. Taniguchi K. Kobayashi	Foundation Condition and Its Effect to the Amplitude of Building by Earthquake Shock. - 3rd Report.	23	60-1	1958	269

No.		Author	Title	Source	No. or Vol.	Date	Page
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* 3624		T. Kobori K. Kaneta R. Minai K. Mizuhata	Analysis of Earthquake Response by Analog Computer: Analog Computer Analysis of Nonlinear Transient Vibration of Structure, No. 1.	23	63-1	1959	297
* 3625		T. Kobori K. Kaneta R. Minai K. Mizuhata	Nonlinear Response Spectrum of Structure : Analog Computer Analysis of Nonlinear Transient Vibration of Structure, No. 2.	23	63-1	1959	301
* 3626		H. Tajimi M. So.	Computations on the Nonlinear Response of a Single Mass System Subjected to Strong Ground Motion.	23	69-1	1961	397
* 3627		Y. Ohsawa A. Shibata	A Study on Characteristics of Response of One Mass System to an Strong Earthquake Motion (Some Consideration of Previous Studies with Respect to Maximum Displacement).	23	69-1	1961	401
* 3628	#	R. Tanabashi T. Kobori K. Kaneta, et al.	Earthquake Responses and Aseismic Design of Asymmetrical Structure: Analog Computer Analysis of Nonlinear Transient Vibration of Structure, No. 3.	23	69-1	1961	485
* 3629	#	R. Tanabashi T. Kobori K. Kaneta, et al.	Earthquake Responses and Aseismic Design of Asymmetrical Structure: Analog Computer Analysis on Nonlinear Transient Vibration of Structure, No.4.	23	69-1	1961	489
* 3630	#	R. Tanabashi T. Kobori K. Kaneta, et al.	Earthquake Response and Aseismic Design of Asymmetrical Structure: Analog Computer Analysis of Nonlinear Transient Vibration of Structure, No. 5.	23	69-1	1961	493
* 3631		Strong Earthquake Response Analysis Committee	Analog Computer for Analyzing Earthquake Response of Buildings.	23	73	1962	1
* 3632		R. Minai	Expected Number to Sepcific Level of Quasi-Stationary Stochastic Process.	23	76	1962	80
* 3633		T. Kobori	Random Response of Nonlinear Elastic Structure to Earthquake Excitation.	23	76	1962	82

No.	Author	Title	Source	No. or Vol.	Date	Page
*3634	Strong Earthquake Response Analysis Committee.	Earthquake Response of a Building by Strong Earthquake Response Analysis Computer.	23	76	1962	83
*3635	T. Hisada, et al.	Study on Earthquake Response of Tall Buildings.	23	76	1962	84
*3636	K. Muto H. Umemura Y. Ohsawa A. Shibata	Linear Response of One-Mass System to Strong Earthquake Motion - Study of the Strong Earthquake Response Analysis. No.2.	23	84	1963	13
*3637	T. Kobori Y. Inoue T. Suzuki	Ground Compliance of Rectangular Foundation.	23	89	1963	193
*3638	T. Odaka F. Horie	Approximate Approach for Searching a Optimum Value in Non-linear Steady State Vibration - to One-mass Systems.	23	89	1963	195
*3639	T. Hisada K. Nakagawa M. Izumi	Effect of Vertical Load to Earthquake Response of Buildings.	23	89	1963	196
*3640	A. Shibata	On the Non-Linear Response of One Mass Systems Having Various Restoring Force Characteristics.	23	89	1963	197
*3641	H. Umemura E. Suzuki K. Miyazawa	A Response Analysis of a Structure by SERAC.	23	89	1963	198
*3642	H. Kobayashi	Vibration of Tall Buildings Due to Strong Earthquake. Part 2.	23	101	1964	17
*3643	T. Kobori R. Minai Y. Inoue	Earthquake Linear Response of the Elastic Structural System Considering the Effect of Dynamical Ground Compliance.	23	103	1964	101
*3644	T. Kobori R. Minai Y. Inoue	Earthquake Non-linear Response of the Elasto-Plastic Structural System Considering the Effect of Dynamical Ground Compliance.	23	103	1964	102
*3645	S. Yamamoto N. Suzuki	Analysis of Response of Structure against Two Components of Earthquake.	23	103	1964	106

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3646	H. Umemura M. Nagata	Study on the Earthquake Response of Structures Having Various Stiffness and Strength Characteristics.	23	103	1964	108
* 3647	H. Umemura Y. Matsushima	Response Spectra for Linear Single-degree-of-freedom Systems to Various Impulses.	23	103	1964	109
* 3648	A. Shibata	Shearing Forces in Structures Caused by Earthquake Motions.	23	103	1964	110
* 3649	T. Odaka F. Horie	On the Response Analysis of Non-linear Vibrations Due to Analog Computer - One Mass Systems Excited by Stationary Waves.	23	103	1964	114
* 3650	T. Odaka T. Suzuki	Response Analysis of Byildings during an Earthquake by Digital Computer.	23	103	1964	115
* 3651	H. Umemura T. Aoyagi	Case History: Earthquake Response Analysis by SERAC Computer for Structural Design of a 16-story Steel Skelton Reinforced Concrete Building.	23	105	1964	20
* 3652	T. Odaka T. Suzuki	The Response Analysis for Multi-Story Building Due to Earthquake Motion (Part I).	23	108	1965	1
* 3653	T. Odaka T. Suzuki	The Response Analysis for Multi-Story Building Due to Earthquake Motion (Part II).	23	109	1965	8
* 3654	Y. Matsushima	Linear Response for 3-Degree-of-freedom Systems under the Ground Shocks.	23	Sup.	1965	135
* 3655	# T. Takahashi, et al.	Fundamental Study of Vibrational Condition of Tall Buildings in an Earthquake - Vibrational Response Analysis Regarding Niigata Earthquake as a Continous Shaking Force.	23	Sup.	1965	137
* 3656	T. Ohta	Response Spectrum of High-Rise Building - Part 1. Case of 35-Story Building.	23	Sup.	1965	138
* 3657	J. Onose T. Shiga	Response Analysis on Torsional Vibration of Buildings Due to Strong Earthquakes.	23	Sup.	1965	139
* 3658	M. Osada	Study on the Earthquake Response of Structures Having Various Stiffness and Strength Characteristics - No. 3	23	Sup.	1965	140

No.	Author	Title	Source	No. or Vol.	Date	Page
*3659	H. Kobayashi	The Effects of the Hysteretic Characteristics on the Response during Earthquake.	23	Sup.	1965	141
*3660	Y. Gyoten	Dynamic Response of a Structure with Long Spanned Steel Roof.	23	Sup.	1965	151
*3661	H. Tajimi Y. Tsuboi T. Ishimaru	Reexaminational Studies on the Aseismatic Property of Reinforced Concrete Shear-Wall Structures - No.9. Statistical Properties of Response on Random Ground Motions.	23	Sup.	1965	233
*3662	H. Kobayashi H. Hirakawa	Dynamic Characteristic of Stack-Like Structures.	23	119	1966	31
*3663	K. Muto K. Uchida H. Takase	Seismic Analysis of Tower by Partial Differential Equation.	23	129	1966	10
*3664	Y. Matsushima	Study on the Response Spectra for the Earthquake Motions.	23	Sup.	1966	129
*3665	#Y. Takeuchi, et al.	Nonstationary Response of Linear Discrete System to Quasi-Stationary Random Excitation.	23	Sup.	1966	137
*3666	#K. Asano, et al.	Random Response of an Elasto-Plastic Structure Considering Its Torsional Vibration.	23	Sup.	1966	138
*3667	A. Shibata	Non-linear Torsional Response of Buildings to Strong Ground Motions.	23	Sup.	1966	139
*3668	T. Sugano	Inelastic Earthquake Response of Multi- story Buildings Having Shear Walls.	23	Sup.	1966	144
*3669	F. Horie A. Odaka	A Study on Multi-Story Frames and Interconnected Arbitrary Shear Walls Subjected to Lateral Force- Part 1. Comparison with the Multi-Degree of Freedom System of Shearing Vibrational Type and the Multi-Story Frames.	23	Sup.	1966	145
*3670	#I. Kaneko, et al.	Seismic Analysis of Multi-Storied Building with Shear Wall.	23	Sup.	1966	146
*3671	T. Uchida	The Response of Simple Beams Subjected to Moving Blast Pressures with Constant Velocity.	23	Sup.	1966	150

No.	Author	Title	Source	No. or Vol.	Date	Page
* 3672	# T. Hisatoku, et al.	On the Aseismic Safety of the Multi-Story Elasto-Plastic Building Structure.	23	Sup.	1966	151
* 3673	# T. Koh, et al.	Exact Response Analysis of Multi-Storied Frame by Slope Deflection Equation.	23	Sup.	1966	155
* 3674	# H. Takase, et al.	A Method of Aseismic Analysis of Stack by Slope Deflection Method.	23	Sup.	1966	156
* 3675	Y. Matsushima	The Characteristics of the Response Spectra for the Earthquake Motions Recorded in Japan.	23	Sup.	1967	183
* 3676	A. Odaka, et al.	Earthquake Response of Buildings Designed on the Present Code.	23	Sup.	1967	184
* 3677	F. Horie A. Odaka	Earthquake Response of Multi-Storied Frame with Interconnected Shear Wall. (Part 2).	23	Sup.	1967	185
* 3678	# T. Hisatoku, et al.	Optimum Distribution of the Shear Strength for Aseismic Desing of Tall Building Structures.	23	Sup.	1967	186
* 3679	S. Ishimaru H. Tajimi	Effects of Lengthening of Natural Period on the Response Spectrum.	23	Sup.	1967	187
* 3680	# H. Tane, et al.	Effect of Vertical Load to Earthquake Response of Buildings - to Six-Mass System, El Centro Earthquake.	23	Sup.	1967	188
* 3681	# T. Suzuki, et al.	Non-linear Response of Buildings with Rocking and Swaying Due to Earthquakes.	23	Sup.	1967	190
* 3682	S. Hayase Y. Gyoten	Earthquake Response of One-Mass System Considering Rocking Motion - Part 1. Case of No-Damping for Both of Foundation and Structure.	23	Sup.	1967	191
* 3683	A. Shibata	Response Analysis of One-Story Buildings against Two Components of Earthquake Motion.	23	Sup.	1967	193
* 3684	J. Onose T. Shiga	Torsional Response of One-Story Unbalanced Building to Earthquakes.	23	Sup.	1967	194
* 3685	# T. Date, et al.	Torsional Corrected Coefficients of Shear Force Considering with Dynamic Influence.	23	Sup.	1967	195

No.	Author	Title	Source	No. or Vol.	Date	Page
*3686	M. Osada K. Muto M. Inouye	A Seismic Analysis of C-Building (25 Stories) in Consideration of Axial and Shearing Deformation of Members and Connections.	23	Sup.	1967	205
*3687	# I. Moritaka, et al.	Response Analysis of Tower Building.	23	Sup.	1967	207
*3688	# I. Kaneko, et al.	Seismic Analysis of Prefab. House of 7 Stories.	23	Sup.	1967	213
*3689	# T. Kamada, et al.	Response Characteristics of a Structure and Ground to Matsushiro Earthquake Swarm - No.1.	23	Sup.	1967	216
*3690	# Y. Takeuchi, et al.	Response Characteristics of a Structure and Ground to Matsushiro Earthquake Swarm - No. 2	23	Sup.	1967	217
*3691	K. Kinoshita Y. Ohsawa	Vibration and Failure Tests of Old Tokyo Kaijo Building - No. 9. Earthquake Response Analysis of "B" Block.	23	Sup.	1967	373
*3692	I. Moritaka T. Takeda	Inelastic Earthquake Response of Multistory Truss Structure - Comparison between a Truss System and a Replaced Shear Vibration System.	23	151	1968	21
*3693	T. Ohya	The Response Analysis for Steel Arched Frame Due to Earthquakes.	23	152	1968	15
*3694	T Ohya	The Response Analysis for Steel Space Structure Due to Earthquakes - Part 3.	23	153	1968	25
*3695	T. Ohya	Study on the Equivalent Beam for the Steel Truss Member.	23	159	1969	31
*3696	S. Nagahashi H. Kobayashi	Evaluation of Earthquake Intensity Based on Damage to Structures.	23	160	1969	25
*3697	T. Ohya	The Response Analysis for Elasto-Plastic Steel Space Structure Due to Earthquakes.	23	160	1969	35
*3698	Y. Awano	Study on the Seismic Resistance of Multi-Story Reinforced Concrete Buildings Including Reinforced Concrete Buildings with Structural Steel.	23	167	1970	31

No.	Author	Title	Source	Vol.	Date	Page
*3699	M. Ozaki H. Watabe, et al.	Earthquake Response Prediction of Reinforced Concrete Building.	23	171	1970	21
*3700	K. Muto	Discussion on the Majima's Flexible Construction to Resist Earthquake Shock.	24	543	1931	353
*3701	K. Mashima	Reply to Mr. Muto's Criticism on the Theory of Flexible Structures and Further Discussion.	24	545	1931	779
*3702	Y. Ohsawa	Simulation and Response Analysis of the Structure.	24	1025	1970	449
*3703	M. Hakuno M. Shinozuka	A Comment on Properties of the Structural Velocity Spectra.	26	139	1967	9
*3704	S. Kotsubo J. Harada	Response Analysis of Bridges Subjected to Different Earthquake Waves at Each Support.	26	175	1970	39
*3705	Y. Yamada H. Takemiya	Statistical Estimation of the Maximum Response of Structures Subjected to Earthquake Motions.	26	182	1970	115
*3706	S. Matsuno	Studies on the Vibration of Bridges When they Are Subjected to Seismic Waves at Each Pier with Phase Differences.	26	188	1971	1
*3707	T. Kunii	Earthquake Response of Structures Having Bi-Linear Restoring Force Characteristics.	26	188	1971	23
*3708	Y. Miyamoto	A Study on Earthquake Responses of Cable-Stayed Girder Bridges.	26	192	1971	25
3709	H. Umemura	Dynamic Analysis of Buildings for Earthquake.	28	VI	1963	23
3710	K. Kubo	Response and Damping Coefficient of Structures during Earthquake.	28	VI	1963	29
*3711	I. Moritaka T. Takeda	Inelastic Earthquake Response of Multi-Storied Truss Structure.	30	2	1968	1
*3712	I. Kaneko H. Takase T. Koh	Seismic Response of Tall Building.	31	15	1966	221

No.	Author	Title	Source	No. or Vol.	Date	Page
3713	I. Kaneko H. Takase Y. Hagiwara T. Koh	Seismic Response Analysis of Tall Frames.	31	15	1966	227
3714	H. Takase T. Tsugawa M. Osada	Seismic Response Analysis of Tower - Like Structures by Means of the Slope Deflection Method Applicable to Non-Uniform Sections.	31	15	1966	233
3715	H. Takase K. Uchida	Seismic Response Analysis of Tower-Like Structures by Partial Differential Equation.	31	15	1966	241
3716	T. Tsugawa H. Takase K. Uchida K. Masuda	Dynamic Analysis of Structures (Torsional Vibration).	31	16	1967	163
3717	G. Sato M. Inoue M. Osada	Dynamic Analysis of Structures (Rigorous Calaculation).	31	16	1967	177
*3718	I. Funahashi K. Kinoshita T. Odaka C. Suzuki	Response Spectrum.	33	2	1967	36
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No.	Author	Title	Source	NO. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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*3737	S. Otani P. Gulkan M.A. Sozen	Response of Reinforced Concrete Frames Subjected to Simulated Earthquakes	36	III	1970	365
*3738	M. Ozaki Y. Yamazaki	Dynamic Response Prediction of Buildings Subjected to Earthquake. Part I, Theoretical Analysis.	36	III	1970	373
*3739	M. Ozaki Y. Yamazaki	Dynamic Response Prediction of Buildings Subjected to Earthquakes. Part II. Numerical Analysis.	36	III	1970	381
*3740	Y. Yamada H. Takemiya	Earthquake Response Analysis and Earthquake-Resistant Design of Multi-Degree-of-Freedom Structures.	36	III	1970	413
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	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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*3777	J. Krishna A.R. Chandrasekaran	Structural Response Recorders.	37	III	1965	III-143
*3778	H. Umemura Y. Ohsawa A. Shibata	Study on Shearing Forces in Structures Caused by Medium Earthquakes Recorded in Japan.	37	III	1965	IV-539
*3779	J. Penzien S.C. Liu	Nondeterministic Analysis of Nonlinear Structures Subjected to Earthquake Excitations.	37	IV	1969	A1-114
*3780	H. Goto K. Toki	Structural Response to Non-Stationary Random Excitation.	37	IV	1969	A1-130
*3781	E. Rosenblueth J. Elorduy	Responses of Linear Systems to Certain Transient Disturbances.	37	IV	1969	A1-185
*3782	H.J. Sexton R.J. Feibusch E.J. Keith	Dynamic Analysis of Tall Buildings Founded in Deep Fill Material.	37	IV	1969	A3-113
*3783	R.D. Hanson W.R.S. Fan	The Effect of Minimum Cross Bracing on the Inelastic Response of Multi-story Buildings.	37	IV	1969	A4-15
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*3785	W.R. Walpole R. Shepherd	The Inelastic Response of a Steel Frame.	37	IV	1969	A4-195
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No.	Author	Title	Source	No. or Vol.	Date	Page
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F - 6 Earthquake Resistance of Buildings

F - 6 - 1 General Subjects in Earthquake Resistance of Buildings

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No.	Author	Title	Source	No. or Vol.	Date	Page
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* 3801	H. Oka	Dynamic Design of Multi-storied Building.	23	103	1964	128
* 3802	K. Matsushita M. Izumi	Study on Reasonable Structural Design of High Rised Buildings - Part I.	23	103	1964	129
* 3803	K. Matsushita M. Izumi	Some Practical Ideas of High-Rised Building Construction.	23	103	1964	131
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No.	Author	Title	Source	No. or Vol.	Date	Page
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* 3818	Y. Nakao	Study on Aseismatic Elastic Design by Statistical Method.	23	177	1970	25
3819	J. Conder	Effects of Recent Earthquakes on Different Types of Buildings.	24	63	1892	63
3820	J. Conder	Effects of Recent Earthquakes on Different Types of Buildings (Continued).	24	65	1892	132
3821	T. Ito	Various Devices for Earthquake Resistant Buildings.	24	73	1893	12
3822	D. Taki	Earthquake Resistant Structure.	24	74	1893	45
3823	H. Mamizu	What is Earthquake Resistant Building?	24	92	1894	236
3824	T. Niiya	Theory of Structures and Buildings from the Viewpoint of Earthquake Damage Prevention.	24	150	1899	142
3825	T. Sano	Structural Mechanics.	24	219	1905	158
3826	T. Sano	Structural Mechanics.	24	220	1905	242
3827	T. Sano	Structural Mechanics.	24	223	1905	486
3828	T. Sano	Structural Mechanics.	24	229	1906	6
3829	T. Sano	Structural Mechanics.	24	230	1906	86

No.	Author	Title	Source	No. or Vol.	Date	Page
3830	T. Sano	Structural Mechanics.	24	231	1906	143
3831	T. Sano	Guidelines for Earthquake Resistant Structures for Housing (Part 1)	24	341	1915	350
3832	T. Sano	Guidelines for Earthquake Resistant Structures for Housing (Part 2)	24	343	1915	483
3833	T. Sano	Guidelines for Earthquake Resistant Structures for Housing (Part 3)	24	344	1915	557
3834	T. Sano	Guidelines for Earthquake Resistant Structures for Housing (Part 1, Supplement)	24	353	1916	214
3835	T. Sano	Guidelines for Earthquake Resistant Structures for Housing (Part 2, Supplement)	24	355	1916	390
3836	T. Sano	Guidelines for Earthquake Resistant Structures for Housing (Part 3, Supplement)	24	357	1916	499
3837	T. Sano	Guidelines for Earthquake Resistant Structures for Housing (Part 4, Supplement)	24	358	1916	587
* 3838	T. Naito	On the Value of Wall for Earthquake Prevention.	24	432	1922	293
* 3839	S. Okada	On the Earthquake and Fire-Proof Building.	24	448	1923	475
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* 3841	K. Ozaki	A Review by W.M. Wildon of Dr. T. Naito's Treatise on Construction of Earthquake Proof Frame Buildings.	24	507	1928	284
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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*3895	H. Sandi	Safety of Idealized Structures Subjected to Earthquakes.	37	III	1965	IV-644
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*3897	C.J.O. Larios L.C. Salas G.D. Bittner R.E. Silva	Study of the Behaviour of a Hanging Building under the Effect of an Earthquake.	37	IV	1969	B3-131
*3898	H.J. Degenkolb	Limitations and Uncertainties of Present Structural Design Methods for Lateral Force Resistance.	37	IV	1969	J4-35
3899	K. Kamei	On Seismic Intensity, Design and Failure Phenomena.	38	V	1968	155
F - 6 - 2 Earthquake Resistance of RC, SRC and S Structures						
3900	S. Hoshino	Disaster Prevention Measures for Tall Buildings and Underground Structures.	11	17	1965	286
3901	K. Muto	The General Theory of Earthquake Resistant Design.	22	14	1951	183
3902	H. Tanabe K. Goto S. Katsuta I. Hatano	Proposed Fire-Resistant and Earthquake-Proof Construction with Precast Ferro-Concrete.	23	21	1941	279
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No.	Author	Title	Source	No. or Vol.	Date	Page
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*3911	T. Naito	On the Earthquake Prevention of Framed Structure (I).	24	436	1922	391
*3912	T. Naito	On the Earthquake Prevention of Framed Structure (II).	24	437	1922	441
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*3914	T. Naito	On the Earthquake Prevention of Framed Structure (IV).	24	439	1923	3
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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3942	K. Muto T. Koh T. Tsugawa M. Osada	Earthquake Resistant Design of the Kasumigaseki Building.	31	17	1968	277
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No.	Author	Title	Source	No. or Vol.	Date	Page
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F - 6 - 3 Earthquake Resistance of Wooden Structure

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3953	K. Tatsuno T. Katayama T. Nakamura T. Sone	Report on Investigation of Earthquake Resistant Wooden House.	1	6	1895	1
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No.	Author	Title	Source	No. or Vol.	Date	Page
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3971	T. Nakamura	Five Models of Earthquake Resistant House (Translation).	24	34	1889	179

No.	Author	Title	Source	No. or Vol.	Date	Page
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3974	T. Ito	On the Invention of Iron Hardwares for Building Safety.	24	65	1892	122
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No.	Author	Title	Source	No. or Vol.	Date	Page
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3986	S. Uchida	A Personal Opinion on Some of Building Structures in and near Shizuoka City from the View Point of Earthquake Resistance.	24	31	1917	738
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F - 6 - 4 Earthquake Resistance of Masonry Structure						
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3996	C. Ito	Earthquake and Brick House.	24	59	1891	291

No.	Author	Title	Source	No. or Vol.	Date	Page
3997	K. Tsuge	A Question to Mr. Sato on Earthquake Resistant Brick of Recent Invention.	24	75	1893	102
3998	Y. Tsukamoto	Dozo (Japanese style Warehouse) and Residential Buildings in Sakata.	24	101	1895	103
3999	M. Miura	A Proposed Earthquake Resistant and Fire-proof Library of Multiple-Stack Type.	24	792	1952	12
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No.	Author	Title	Source	No. or Vol.	Date	Page
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4012	K. Uchida	Dynamic Behavior of an Extremely Call Chimney.	31	17	1968	339
4013	K. Uchida H. Takase K. Masuda T. Kobayashi	Seismic Response of an Extremely Tall Chimney Taking into Account the Interaction with the Ground.	31	18	1969	407
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No.	Author	Title	Source	No. or Vol.	Date	Page
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F - 7 Earthquake Resistance of Civil Engineering Structures

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No.	Author	Title	Source	Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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F - 7 - 3 Earthquake Resistance of Port and Harbor Facilities						
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No.	Author	Title	Source	No. or Vol.	Date	Page
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No.	Author	Title	Source	No. or Vol.	Date	Page
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4076	I. Konishi H. Goto D. Kawaguchi	A Study on Ultimate Load Design of Bridge Piers.	28	II	1958	41
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No.	Author	Title	Source	No. or Vol.	Date	Page
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	F - 7 - 5 Earthquake Resistance of Tunnels					
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	F - 7 - 6 Earthquake Resistance of Submerged Structures					
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No.	Author	Title	Source	Vol.	Date	Page
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F - 9 Earthquake Resistance of Mechanical and Piping Systems

4102	The Earthquake Resistant Design Group for Mechanical and Piping Systems.	Damage to Mechanical and Piping Systems; Its Causes and Preventive Measures.	11	16	1964	293
4103	K. Kawazoe	On Earthquake Damage to Chemical Plants.	11	16	1964	303
* 4104	H. Sato T. Muto	On a Dynamic Characteristic Measurement of a Tool Machine by Micro Tremors.	11	17	1965	262
* 4105	H. Sato	On Damages to Machine Structures and Piping Systems.	11	20	1968	632
* 4106	H. Sato	On the Response of Mechanical Structures to the Earthquake.	36	I	1962	153
* 4107	H. Shibata T. Shigeta	On a Dynamic Behavior of a Piping System.	36	I	1962	183

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4108	H. Shibata H. Hara	Some Comments on the Randomness of the Strong Earthquake Motions and the Responses of Piping Systems.	36	II	1966	31
* 4109	H. Shibata N. Shimizu	Some Considerations on Response Analysis of Piping Systems to Multi-Inputs ... Response Estimation and Its Fluctuation.	36	III	1970	309
* 4110	K. Suzuki H. Sato	A Study on Response Analysis of Building-Machine Structure System Subjected to Multi-Seismic Motions.	36	III	1970	317
* 4111	H. Shibata H. Sato T. Shigeta	Aseismic Design of Machine Structure.	37	III	1965	II-552
* 4112	V.S. Pavlyk	Study of Earthquake Resistance of Boilers and Recommendations for Their Design.	37	IV	1969	B4-143
		F - 10 Earthquake Resistance of Nuclear Power Plants				
* 4113	T. Kobori	A Proposal for the Aseismic Design of Calder Hall Type Reactor.	9	1	1957	92
* 4114	T. Kobori R. Minai	A Proposal and Consideration of Aseismic Method for Nuclear Power Station.	9	3	1959	94
4115	S. Okamoto K. Kato	Earthquake Observation Data Taken at the Underground Power Plant.	11	9	1957	28
4116	Y. Tsuboi, K. Akino S. Kawamata C. Keong	Stress Analysis of the Calder Hall Type Nuclear Reactor Vessel.	11	12	1960	258
4117	H. Shibata H. Sato	Earthquake Resistant Design of Equipment Systems - Emphasizing the Systems in Nuclear Power Plants.	11	17	1965	274
* 4118	H. Shibata	Aseismic Design of Nuclear Power Plants - Developments of These Ten Years.	11	20	1968	388
* 4119	T. Naito S. Nasu M. Takeuchi G. Kubota	Experimental Study of Method of Aseismic Reinforcement Recommended to the Calder Hall Type Reactor.	23	60-1	1958	301

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4120	T. Naito M. Takeuchi S. Nasu G. Kubota	Experimental Study on the Aseismic Reinforcement of the Graphic Core of the Calder Hall Type Reactor by Means of a Steel Cylindrical Shell.	23	63-1	1959	277
* 4121	T. Hisada K. Nakagawa M. Izumi	Experimental Study on Aseismic Reinforcement of Calder Hall-Type Power Reactor.	23	63-1	1959	281
* 4122	Y. Tsuboi K. Akino S. Kawamata C. Keong	Stress Analysis of Pressure Vessels and Its Supporting Structures of Calder Hall Type Atomic Reactors Subjected to Earthquake. Part 1 - Analysis of Membrane State.	23	66-1	1960	313
* 4123	Y. Tsuboi K. Akino S. Kawamata C. Keong	Stress Analysis of Pressure Vessels and its Supporting Structures of Calder Hall Type Atomic Reactors Subjected to Earthquake, Part 2 - Continuity Conditions of the Junctions of Shells and Analysis of Bending.	23	66-1	1960	317
* 4124	S. Kokusho M. Makino	Horizontal Load Test of a Model Container Vessel.	23	76	1962	78
* 4125	K. Muto	Tentative Response Analysis of Tokai Reactor Structure Due to Earthquake Ground Motion on 3rd April, 1966.	23	Sup.	1967	206
4126	K. Muto N. Nasu T. Naito H. Umemura T. Hisada S. Kawabata	Review Meeting on Providing An Earthquake Resistant Capability to Nuclear Reactors of the Revised Calder Hall Type.	24	859	1958	13
4127	K. Akino	On Earthquake Resistant Design of Nuclear Power Plant.	24	885	1960	347
4128	K. Akino	Construction of Tsuruga Atomic Power Plant.	25	195	1967	67
* 4129	T. Hatano	Model Similitude in Vibration Testing - A Preliminary Test for Research of the Seismic Stability of a Graphite Pile in Nuclear Reactor.	26	61	1959	18

No.	Author	Title	Source	No. or Vol.	Date	Page
4130	K. Muto K. Uchida M. Inoue Y. Iwata	Seismic Response Analysis of Nuclear Power Plant.	31	18	1969	399
* 4131	K. Akino	Aseismic Design for Nuclear Power Plants.	36	I	1962	117
* 4132	K. Akino T. Uchida	Vibration Experiment about a Model of the Containment Structure and Its Analystic Examination.	36	I	1962	251
* 4133	S. Fujii K. Yoshimura	On a Study of Method of Aseismic Design for Piping System.	36	II	1966	409
* 4134	J.M. Biggs R.V. Whitman	Soil-Structure Interaction in Nuclear Power Plants.	36	III	1970	89
* 4135	G.W. Housner	Design of Nuclear Reactors against Earthquakes.	37	II	1960	133
* 4136	R. Hicks I.A.B. Gaunt	The Seismic Design of a Nuclear Power Station for Japan.	37	II	1960	2027
* 4137	H. Tajimi M. Ohmura T. Uchida K. Akino	Observed Vibrations of a Nuclear Reactor Building during Some Weak Earthquakes.	37	III	1965	II-619
* 4138	R. Flores	Design Principles of Earthquake Resistant Blast Furnaces.	37	III	1965	IV-234
* 4139	J.A. Blume D. Jhaveri	Time-History Response of Buildings with Unusual Configuration.	37	IV	1969	A3-155
* 4140	N.M. Newmark W.J. Hall	Seismic Design Criteria for Nuclear Reactor Facilities.	37	IV	1969	B4-37
* 4141	J.A. Fischer W.J. Murphy	Selection of Design Earthquakes for Nuclear Power Plants.	37	IV	1969	B4-67
* 4142	S. Fujii H. Shibata M. Iguchi H. Sato K. Akino	Observation of Damages of Industrial Firms in Niigata Earthquake.	37	IV	1969	J2-1

No.	Author	Title	Source	No. or Vol.	Date	Page
G. Foreign Countries (Seismic Intensity (Scale), Seismicity, Earthquake Damage, Earthquake Resistance Regulations, etc.)						
G - 1 East Asia						
G - 1 - 1 Taiwan (Formosa)						
4143	Taipei Meteorological Station.	Report on Strong Earthquake that Occurred on the Western Shore of South Taiwan on April 24th, 1904.	1	49	1905	51
4144	T. Sano	Report on Investigation of Earthquake Disasters in Taiwan.	1	51	1905	1
4145	F. Ohmori	The First Investigation Team for Taiwan Earthquakes.	1	54	1906	1
* 4146	F. Ohmori	Preliminary Note on the Formosa Earthquake of March 17, 1906.	3	1	1907	53
* 4147	F. Ohmori	Note on the Seismic Stability of the Piers of the Naishagawa Railway Bridge, Formosa.	3	2	1908	196
* 4148	M.-T. Hsu	Seismicity of Taiwan (Formosa.).	5	39	1961	831
* 4149	T. Saita	On the Earthquake Damages and the Ground in Taiwan. (Formosa).	6	3-1	1936	96
* 4150	T. Suzuki	Earthquake Resistivity of Native Formosan Houses of "Dokaku" Construction.	6	3-1	1936	110
* 4151	R. Takahasi	Intensity Distribution of the Formosan Earthquake of April 21, 1935, and the Strength of Dokaku Structures.	6	3-1	1936	120
* 4152	R. Takahasi	On the Sinuous Buckling of Rails.	6	3-1	1936	148
* 4153	Earthquake Research Inst.	Field Investigations.	6	3-2	1936	156
* 4154	Earthquake Research Inst.	Statistics of Damages.	6	3-2	1936	195
* 4155	Earthquake Research Inst.	The After-Shock of August 17, 1935.	6	3-2	1936	228
4156	T. Sano	Commentary on Taiwan Earthquakes.	24	220	1905	197

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4157	T. Taniguchi	Earthquake and Buildings in Formosa.	24	537	1930	1733
* 4158	A. Imamura	Latest Earthquake in Formosa.	24	605	1935	1281
* 4159	T. Sano	Earthquake and Building in Formosa.	24	605	1935	1288
* 4160	K.C. Cheng	Report on the 1951 Earthquake in Taiwan.	37	II	1960	397
* 4161	M.-T. Hsu	Seismicity in Taiwan	37	III	1965	III-116
* 4162	Z.-H. Tsai	Earthquake and Architecture in Taiwan.	37	III	1965	III-114
G - 1 - 2 Mainland China						
4163	K. Kondo S. Teramoto	Report on Great Earthquake that Occurred in Swatow Area, on Feb.13, 1918.	1	89	1918	1
* 4164	T. Saita	The Peculiarity of Chinese Earthquake Disasters and the Seismic Intensities as Deduced from Remaining Pagodas.	5	16	1938	407
4165	H. Kawasumi	Earthquake that Occurred in Shuei-Hwa of North Manchuria on May 6, 1941.	21	13	1941	179
4166	H. Kawasumi	Earthquake that Occurred in Shuei-Hwa of North Manchuria on May 6, 1941. (Continued).	21	13	1941	273
4167	K. Musha	Characteristics of Destructive Earthquakes in China.	21	16	1944	304
* 4168	M. Keimatsu	The Short History of the Earthquakes in Hainan Island and Their Chronological Table.	21	II-6	1953	147
* 4169	M. Keimatsu	The Two Great Earthquakes in the North Eastern Part of Shanhsi Province, China in 17th Century.	21	II-6	1953	163
* 4170	M. Keimatsu	On the Historical Tidal Waves in China.	21	16	1963	149
G - 2 Southeast Asia						
G - 2 - 1 Indonesia						

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4171	K. Takeyama T. Ohta Y. Nagata K. Atsumi	Anti-seismic Design of a High-rise Building in Djakarta.	37	III	1965	IV-508

G - 3 Middle East

G - 3 - 1 India

4172	T. Kondo	Report on Brief History of Earthquakes in East India	1	21	1898	67
4173	T. Nakamura	Report of the Investigation Tour through Earthquake Disaster Area in India.	1	22	1898	3
4174	T. Koyama	Report of Field Investigation on Earthquake Disasters in the Assam District of India.	1	25	1898	3
* 4175	N. Nasu	The Great Indian Earthquake of January 15, 1934.	5	13	1935	417
4176	T. Kodaira	Indian Earthquake Catalogue (Part 1).	21	9	1937	178
4177	T. Kodaira	Indian Earthquake Catalogue (Part 2).	21	9	1937	218
4178	T. Matsuzawa	On the Ground Motion in the Epicentral Area of the Great India Earthquake of June 12, 1897.	21	13	1941	192
4179	T. Nakamura	Buildings in the Earthquake Disaster Area of India.	24	136	1898	121
4180	S. Okamoto	Reflection on the Earthquake Damage Due to Koyna Earthquake.	27	53-6	1968	10
* 4181	J. Krishna R.S. Mittal A.R. Chandrasekaran S.K. Manglik	Kapkote Earthquake of Dec. 28, 1958.	37	II	1960	487
*4182	K.C. Chakravortty D.P. Chosh	Seismological Study of the Crustal Layers in Indian Region from the Data of Near Earthquakes.	37	II	1960	1633

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4183	P. Kumar	Geotectonic Movements and Their Influence on the Hydrography of Indo-Gangetic Plains.	37	II	1960	1655
* 4184	R.N. Joshi	Striking Behaviour of Structures in Assam Earthquakes.	37	II	1960	2143
* 4185	E. Titaru A. Cismigiu	Aseismic Design of an Oil Refinery in the State of Assam, India.	37	II	1960	2203
* 4186	L.S. Srivastava R.S. Mithal	Seismicity and Tectonic History of the Indo-Gangetic Plains.	37	III	1965	III-252
* 4187	J. Krishna	Engineering Aspects of Badgam Earthquake, 2 September, 1963.	37	III	1965	V-113
* 4188	G.V. Berg Y.C. Das K.V.G.K. Gokhale A.V. Setlur	The Koyna India, Earthquake.	37	IV	1967	J2-44
	G - 3 - 2 Pakistan					
* 4189	A.Q. Khan	Experience and Practice in Pakistan.	37	I	1965	23-1
		G - 4 Near East				
	G - 4 - 1 Turkey					
4190	Y. Ohsawa K. Kaneta M. Katayama	Report by the Japanese Earthquake Engineering Mission to Turkey.	24	982	1967	391
* 4191	N. Pinar	Experience and Practice in Turkey.	37	I	1956	22-1
* 4192	R. Yarar S.S. Tezcan	Structural Engineering Aspects of the 1967 Adapazari, Turkey, Earthquake .	37	IV	1969	J2-36
	G - 4 - 2 Iran					
4193	R. Tanabashi	On Earthquake Damages in Iran.	24	922	1963	97
* 4194	H. Kobayashi	A Report on Qazvin Earthquake (Iran,Sept.1, 1962).	24	928	1963	423

No.	Author	Title	Source	No. or Vol.	Date	Page
4195	S. Omote H. Kobayashi K. Nakagawa S. Kawabata E. Nakaoka	Damage Resulting from the Earthquake Which Occurred in Iran in September, 1962.	28	VI	1963	3
* 4196	H.K. Afshar	Report on the Lar Earthquake of 24th April, 1960.	37	II	1960	591
* 4197	A.A. Moinfar	Earthquake Engineering Trends in Iran.	37	III	1965	IV-414
* 4198	N.N. Ambraseys	An Earthquake Engineering Study of the Buyin-Zahra Earthquake on September 1st, 1962.	37	III	1965	V-7
* 4199	S. Omote K. Nakagawa H. Kobayashi S. Kawabata E. Nakaoka	A Report on the Buyin Earthquake (Iran) of September 1st, 1962.	37	III	1965	V-27

G - 5 Oceania

G - 5 - 1 New Zealand

* 4200	V.A. Murphy	Experience and Practice in New Zealand.	37	I	1956	21-1
* 4201	J.A.R. Johnston	A Brief History of Damaging Earthquakes in Wellington City and Developments in Multi-storied Building Construction in New Zealand.	37	II	1960	457
* 4202	R.H. Clark R.R. Dibble H.E. Fyfe G.J. Lensen R.P. Suggate	Tectonic and Earthquake Risk Zoning in New Zealand.	37	III	1965	I-107
* 4203	J.R. Bennett	Earthquake Insurance in New Zealand.	37	III	1965	IV-23
* 4204	J.R. Blake-Kelly	The Effects of Seismic Engineering On Architecture in New Zealand.	37	III	1965	IV-33
* 4205	I.L. Holmes	Concrete Masonry Buildings in New Zealand.	37	III	1965	IV-244

No.	Author	Title	Source	NO. or Vol.	Date	Page
* 4206	J.A.R. Johnston O.A. Glogau C.F. Candy G.H.F. McKenzie	Multi-storied State Building Design in New Zealand.	37	III	1965	IV-272
* 4207	L.F. Kenna	Brickwork and Earthquakes in New Zealand.	37	III	1965	IV-292
* 4208	R. Shepherd	Dynamic Elastic Analysis in the Design of Typical New Zealand High-rise Buildings.	37	IV	1969	A3-99
* 4209	C.M. Strachan	Seismic Classification System for Old Buildings in New Zealand.	37	IV	1969	B6-21
		G - 5 - 2 Other Countries				
* 4210	J.A. Brooks	Seismicity of the Territory of Papua and New Guinea.	37	III	1965	III-15
		G - 6 Europe				
		G - 6 - 1 Soviet Russia (U.S.S.R.)				
* 4211	T. Hisada K. Nakagawa H. Saito	Earthquake Engineering and Regulations for Earthquake Resistance in U.S.S.R..	24	899	1961	321
* 4212	S.V. Polyakov	Earthquake Resistant Structure of Residential and Public Buildings in U.S.S.R..	24	947	1964	771
* 4213	S.A. Fedotov	Seismicity of the South of the Kuril Islands.	37	II	1960	1643
* 4214	V.A. Bikhovsky J.I. Goldenblat J.L. Korchynski	Design of Earthquake-Proof Building Structures in the U.S.S.R..	37	II	1960	1743
* 4215	K.S. Zavriev	Guaranteeing Antiseismicity of Buildings on the Basis of Investigations Carried out in the U.S.S.R..	37	II	1960	1779
* 4216	V.I. Bune	Seismic Investigations in the Vaksh Area of Tadzhik Republic Relating to Large Dam Construction Projects.	37	III	1965	III-27
* 4217	S.V. Medvedev	New Seismic Regionalization of U.S.S.R. Territory.	37	III	1965	III-168

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4218	S.G. Napetvaridze	Research on Earthquake Resistance of Dams in U.S.S.R..	37	III	1965	IV-428
* 4219	S.V. Polyakov V.I. Konovodchenko	Earthquake Resistant Structures of Residential and Public Buildings in the U.S.S.R..	37	III	1965	IV-449
G - 6 - 2 Germany						
* 4220	W. Hiller	Experience and Practice in Germany.	37	I	1956	18-1
G - 6 - 3 France						
* 4221	A. Brenier	French Regulations for Civil Engineering in Regions Broken by Seismism.	37	II	1960	2113
* 4222	J.P. Rothé	Seismic Maps of France.	37	III	1965	III-205
* 4223	J. Despeyroux	The New French Aseismic Code..	37	III	1965	IV-186
G - 6 - 4 Rumania						
* 4224	E. Titaru A. Cismigiu	On the Rumanian General Design Specifications for Civil and Industrial Buildings in Seismic Areas: Examples.	37	II	1960	2177
* 4225	A.A. Beles M. Ifrim	Engineering Aspects of Earthquakes in Rumania in the Light of Modern Investigations.	37	II	1960	2159
* 4226	N. Korcinski	On Aseismic Resistance of Structures Taking into Account the Different Behavior of Materials to Shock Loads.	37	II	1960	2217
G - 6 - 5 Yugoslavia						
4227	K. Muto T. Hisada	On Earthquake Disaster in Skopje City of Yugoslavia and the Technical Cooperation in Restoration Effort between Yugoslavians and Japanese Mission Sent by the Japanese Government.	24	936	1964	111
*4228	K. Muto S. Okamoto T. Hisada	Report of the Japanese Earthquake Engineering Mission to Yugoslavia.	24	938	1964	225
*4229	G.V. Berg	The 1963 Skopje Earthquake.	37	III	1965	S-1

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4230	N.N. Ambraseys	An Earthquake Engineering Vewpoint of the Skopje Earthquake, 26th of July, 1963.	37	III	1965	S-22
* 4231	W.E. Kunze M. Fintel J.E. Amrhein	The Skopje, Yugoslavia Earthquake of July 26, 1963.	37	III	1965	S-39
G - 6 - 6 Bulgaria						
* 4232	E.K. Grigorova S. Sachansky	Engineering Analysis of Earthquakes in Bulgaria.	36	II	1966	391
G - 6 - 7 Italy						
4233	F. Ohmori	On the Great Earthquake in Central Italy.	1	79	1915	71
* 4234	F. Ohmori	Preliminary Report on the Messina-Reggio Earthquake of Dec. 28, 1908.	3	3	1909	37
4235	K. Tatsuno	Earthquake Resistant Architecture in Ischia Island, Italy.	24	43	1890	109
4236	K. Tatsuno	Earthquake Resistant Architecture in Ischia Island, Italy.	24	47	1890	175
* 4237	G. Oberti	Experience and Practice in Italy.	37	I	1956	25-1
* 4238	C. Semenza	Dams in Italy Constructed for Earthquake Resistance.	37	I	1956	37-1
* 4239	F. Penta	The Ground Factor in the New Italian Building Code.	37	III	1965	I-230
* 4240	R. Cavallo F. Penta	Lessons Drawn from the Most Recent Earthquakes in Italy.	37	III	1965	V-62
G - 6 - 8 Greece						
* 4241	P. Moliotis	Development of the Design of Earthquake Resisting Structures in Greece.	37	I	1956	23A-1
G - 7 Africa						
G - 7 - 1 Countries on South Shore of the Mediterranean Sea						
*4242	J.K. Minami	Relocation and Reconstruction of the Town of Barce, Cyrenaica, Libya, Damaged by the Earthquake of the 21st, Feb., 1963.	37	III	1965	V-96

No.	Author	Title	Source	No. or Vol.	Date	Page
		G - 8 North America				
		G - 8 - 1 Alaska				
* 4243	Japanese-American Investigation Committee.	Outline of the Alaskan Earthquake.	24	944	1964	511
4244	K. Takeyama O. Suzuki	On Damages in Anchorage City Due to the Alaskan Earthquake.	29	12-7	1964	2
* 4245	P.C. Jennings	Vertical Shear Failure of Coupled Shear Walls in the Alaskan Earthquake.	36	II	1966	379
* 4246	R.F. Scott	Soil Mechanics and Foundation Engineering Aspects of the Alaskan Earthquake of March 27, 1964.	37	III	1965	I-157
* 4247	K.V. Steinbrugge	Structural Engineering Aspects of the Alaskan Earthquake of March 27, 1964.	37	III	1965	S-50
4248	Y. Ohsawa	Damage to Tall Buildings Resulting from the Alaskan Earthquake and the Interpretation of Such Damage.	38	I	1964	107
		G - 8 - 3 U.S.A. Continent				
4249	T. Sano	The History of Earthquakes in California, U.S.A..	24	238	1906	646
4250	T. Sano	The History of Earthquakes in California, U.S.A.. (2).	24	239	1906	693
4251	T. Nakamura	On Earthquakes in California, U.S.A..	24	240	1906	751
4252	T. Sano	The History of Earthquakes in California, U.S.A. (3).	24	241	1907	29
* 4253	K. Ozaki	On the Rules for the Calculation of Earthquake-Proof Constructions in the New Draft of Los Angeles Building Code.	24	498	1927	980
4254	H. Brunnier	The Trend in Earthquake Resistant Structure in the United States of America.	24	749	1949	17

No.	Author	Title	Source	No. or Vol.	Date	Page
4255	K. Minami	On Earthquake Resistant Design in the United States.	24	847	1957	37
*4256	K. Muto	Significance of the Los Angeles Earthquake.	24	1041	1971	695
*4257	Y. Ohsaki	Outline of the Los Angeles Earthquake.	24	1041	1971	697
*4258	Y. Ohsawa	Damages to Buildings by the Los Angeles Earthquake.	24	1041	1971	705
*4259	T. Ohkubo	Damages to Roads, Bridges and Dams by the Los Angeles Earthquake.	24	1041	1971	709
*4260	H. Shibata	Damages to Urban Facilities and Equipments by the Los Angeles Earthquake.	24	1041	1971	715
*4261	T. Takeda	Earthquake Resistant Regulations of Los Angeles.	24	1041	1971	721
*4262	M. Itami	Urban Characteristics of the Damaged Areas of Los Angeles.	24	1041	1971	725
*4263	H. Tajimi	Lessons from the Los Angeles Earthquake : from the Viewpoint of Earthquake Resistant Design.	24	1041	1971	731
*4264	I. Funahashi	Damages to the Secondary Materials such as Glass Panes by the San Fernando Earthquake.	24	1041	1971	741
*4265	S. Murakami	Earthquake Resistant Capacity of Urban Functional Spaces.	24	1041	1971	745
*4266	K. Togawa	Behavior of Crowds during Earthquakes.	24	1041	1971	749
*4267	Committee on Earthquake Engineering.	Report on Damages in the San Fernando Earthquake.	26	195	1971	117
4268	The Editorial Committee.	Damages to Road Structures Resulting from the San Fernando Earthquake - the Second Report on Damages Due to the San Fernando Earthquake.	27	56-4	1971	55
*4269	S. Okamoto	Damage of the San Fernando Earthquake.	27	56-7	1971	3
*4270	M. Fukuoka	The Los Angeles Earthquake.	29	19-4	1971	56

No.	Author	Title	Source	No. or Vol.	Date	Page
4271	M. Fukuoka	Report on the Investigation of the Los Angeles Earthquake.	29	19-6	1971	37
4272	Y. Ohsaki	The San Fernando Earthquake and Damages to Buildings.	29	19-8	1971	22
4273	H. Kawasumi	The San Fernando(Los Angeles) Earthquake and the Lesson from Its Experience.	29	19-8	1971	34
*4274	P. Byerly	Seismicity of Western United States.	37	I	1956	1-1
*4275	H.J. Brunnier	Experience and Practice in the United States.	37	I	1956	26-1
*4276	M.A. Ewing C.M. Herd	Criteria for Structural Design in California Schools.	37	I	1956	36-1
*4277	K.V. Steinbrugge V.R. Bush	Earthquake Experience in North America, 1950-1959.	37	II	1960	381
*4278	P.G. Buffinton	Earthquake Insurance in the United States - A Reappraisal.	37	II	1960	1669
*4279	R.W. Binder W.T. Wheeler	Building Code Provisions for Aseismic Design.	37	II	1960	1843
*4280	J.F. Meehan	State of California, Office of Architecture and Comstruction Earthquake Research.	37	III	1965	IV-400
*4281	S.T. Algermissen	Seismic Risk Studies in the United States.	37	IV	1969	A1-14
*4282	N.N. Nielsen W.H. Walker	Earthquake Engineering Research in the United States.	37	IV	1969	B5-111
*4283	C.M. Duke L.R. Augusto	University of Chile-University of California Program in Earthquake Engineering.	37	IV	1969	B5-113
*4284	K. Kanai K. Yamabe M. Sawada S. Shimosaka	On the Result of Investigation of the Los Angeles Earthquake.	38	VIII	1971	205

G - 9 Central America

G - 9 - 1 Mexico

No.	Author	Title	Source	No. or Vol.	Date	Page
* 4285	E. Rosenblueth	Experience and Practice in Mexico.	37	I	1956	24-1
* 4286	N.M. Newmark L. Zeevaert	Aseismic Design of Latino Americana Tower in Mexico City.	37	I	1956	35-1
* 4287	E. Rosenblueth	The Earthquake of July 28, 1957 in Mexico City.	37	II	1960	359
* 4288	R.D. Cossio	Foundation Failures during the Coatzacoalcos (Mexico) Earthquake of August 26, 1959.	37	II	1960	473
* 4289	L. Zeevaert	Base Shear in Tall Buildings during Earthquake of July 28, 1957 in Mexico City.	37	II	1960	983
* 4290	E. Rosenblueth	Aseismic Provisions for the Federal District, Mexico.	37	II	1960	2009
* 4291	R.E. David	Effect of Earthquakes on Columns and Bridge Piers, a Method of Design.	37	III	1965	IV-643
* 4292	R.W. Binder	The Acapulco, Mexico Earthquake of May 11 and 19, 1962.	37	III	1965	V-45
		G - 10 South America				
		G - 10 - 1 Venezuela				
* 4293	Venezuelan Official Seismic Commission.	The Caracas Earthquake of July 29, 1967.	37	IV	1969	J2-74
* 4294	H.J. Degenkolb R.D. Hanson	The July 29, 1967 Venezuela Earthquake Lessons for the Structural Engineer.	37	IV	1969	J2-90
* 4295	J.F. Borges J. Grases A. Ravara	Behaviour of Tall Buildings during the Caracas Earthquake of 1967.	37	IV	1969	J2-107
* 4296	R.I. Skinner	Damage Mechanisms and Design Lessons from Caracas.	37	IV	1969	J2-124
* 4297	D.F. Fernandez L.S. Cluff	Caracas, Venezuela Earthquake of July 29, 1967.	37	IV	1969	J2-151
		G - 10 - 2 Colombia				
* 4298	J.E. Ramirez	Experience and Practice in Colombia.	37	I	1956	19-1

No.	Author	Title	Source	No. or Vol.	Date	Page
G - 10 - 3 Peru						
4299	M. Hakuno	Damages Resulting from the Peru Earthquake.	27	56-4	1971	48
G - 10 - 4 Chile						
*4300	T. Saita	The Great Chilean Earthquake of January 24, 1939.	5	18	1940	446
4301	T. Hirono	General Description of the Chilean Earthquake.	24	891	1960	601
4302	M. Umemura	On the Chilean Earthquake.	24	891	1960	607
4303	K. Kanai	Report on the Investigation of the Chilean Earthquake.	28	IV	1960	31
*4304	H. Bertling	Experience and Practice in Chile.	37	I	1956	20-1
*4305	R. Flores S. Arias V.A. Jenschke L.A. Rosenberg	Engineering Aspects of the Earthquakes in the Miapo Valley, Chile, in 1958.	37	II	1960	409
*4306	C. Lomnitz	A Study of the Maipo Valley Earthquakes of September 4, 1958.	37	II	1960	501
*4307	R. Flores	Engineering Aspects of Chilean Earthquakes of May 21 and 22, 1960.	37	II	1960	609
*4308	K.V. Steinbrugge R.W. Clough	Chilean Earthquakes of May 1960: A Brief Trip Report.	37	II	1960	629
*4309	E. Gajardo C. Lomnitz	Seismic Provinces of Chile.	37	II	1960	1529
*4310	R. Hidalgo J. Vasquez H. Rojas	Analyis of the Behaviour of the Puerto Montt, Banco Central de Chile Structure Analysis of the Damage Caused by the 1960 Earthquakes in a Building of the Chiprodal Factory in Llanquihue, Chile.	37	III	1965	IV-624
*4311	C. Lomnitz	An Earthquake Risk Map of Chile.	37	IV	1969	A1-161
*4312	E. Retamal E. Kausel	Vibratory Compaction of the Soil and Tectonic Subsidence during the 1960 Earthquake in Valdivia, Chile.	37	IV	1969	A5-13

No.	Author	Title	Source	No. or Vol.	Date	Page
*4313	A. Arias R. Husid E.J. Monge	Comments on the New Chilean Seismic Code for Buildings.	37	IV	1969	B5-41
*4314	E.J. Monge	Seismic Behaviour and Design of Small Buildings in Chile.	37	IV	1969	B6-1
*4315	S. Arias V. Arze J. Bauza	Repairs on Power House and Boiler Support Structure Damaged by 1965 Earthquake. Ventanas 115 MW Steam Electric Station (Chile).	37	IV	1969	B6-31
G - 10 - 5 Argentina						
*4316	J.S. Carmona J.H. Cano	Periods of Buildings of Mendoza City (Argentina).	37	IV	1969	B1-72
		G - 11 Others				
*4317	N.N. Ambraseys	Macroseismic Observations from Some Recent Earthquakes.	37	IV	1969	J2-20
*4318	L. Esteva O.A. Rascón A. Gutierrez	Lessons from Some Recent Earthquakes in Latin America.	37	IV	1969	J2-58
*4319	R. Flores	An Outline of Earthquake Protection Criteria for a Developing Country.	37	IV	1969	J4-1

Complete Listing of Author's Names of Papers with Symbol #.

0457 Y. Hagiwara
K. Muto
H. Umemura
Y. Ohsawa
A. Shibata
T. Ohta
I. Kaneko

0458 K. Nakagawa
T. Hisada
M. Izumi

0518 T. Ohta
K. Muto
Y. Haghiwara
H. Sasao
N. Adachi

0623 M. Ito
T. Shiga
J. Shibuya

0628 K. Takeyama
K. Suzuki
K. Suyama
A. Ohya
H. Ohno

0792 N. Masizu
C. Katsuta

0834 T. Tachikawa
T. Kobori
R. Minai
Y. Suzuki
K. Kusakabe

0869 Y. Konishi
Y. Yokoo
K. Yamagata

0872 K. Kyo
K. Matsushita
H. Kishida

0964 T. Kitazono
T. Shiga
M. Ito

1004 T. Hashiba
K. Matsushita
K. Kyo
H. Kishida
M. Endo

1005 K. Kyo
K. Matsushita
H. Kishida
M. Endo
T. Hashiba

1007 O. Tanaka
K. Kotohda
A. Fujita
H. Ueda
K. Ishiyama

1009 K. Kyo
K. Matsushita
H. Kishida

1010 S. Yamada
K. Matsushita
K. Kyo
H. Kishida

1011 Y. Kanaya
I. Yamaguchi
Y. Miyazaki

1013 M. Hanamura
K. Kotohda

1014 T. Yahiro
C. Ueno
H. Kosugi

1015 H. Hatano
T. Saeda
K. Endo

1095 Y. Kobayashi
K. Uchiyama

1211 N. Nakagawa
T. Saito
H. Yoshida
A. Tanaka
M. Kubodera

1221 T. Kazama
M. Takeuchi
M. Hara

1223 T. Tanimoto
I. Toriumi

1224 S. Ishida
R. Tanabashi

1225 T. Suzuki
A. Odaka

1226 Y. Ohsawa
H. Umemura
M. Murakami
T. Tsuboi
A. Yokozuka
R. Tamura

1227 M. Murakami
H. Umemura
Y. Ohsawa
T. Tsuboi
A. Yokozuka
R. Tamura

1228 R. Tamura
H. Umemura
Y. Ohsawa
M. Murakami
T. Tsuboi
A. Yokozuka

1229 S. Watanabe
J. Yoshihara
T. Tsunoda
T. Fukushima
S. Shimaguchi

1230 S. Shimaguchi
S. Watanabe
T. Tsunoda
T. Fukushima
J. Yoshihara

1231 J. Yoshihara
S. Watanabe
T. Sumida
T. Fukushima
S. Shimaguchi

1232 H. Tane
Y. Gyoten
K. Mizuhata

Complete Listing of Author's Names of Papers with Symbol # (continued)

1233 T. Horiguchi
T. Naka
M. Fujimoto
S. Kokusho
T. Kato
M. Yoshimoto
H. Aoki

1236 H. Tane
Y. Gyoten
Y. Nishimura

1237 T. Kazama
M. Takeuchi
H. Hara

1238 Y. Kushida
A. Minoo
I. Funabashi
K. Kinoshita

1240 Y. Yamazaki
Y. Sakai
T. Aoki

1242 I. Moritaka
S. Matsuoka
T. Takeda
K. Yoshioka

1243 K. Minami
M. Wakabayashi
T. Nonaka

1244 I. Funahashi
K. Kinoshita
K. Saito

1245 K. Saito
I. Funahashi

1246 K. Kinoshita
I. Funahashi
K. Saito

1247 R. Tamura
H. Umemura
Y. Ohsawa
N. Miyajima
M. Murakami
T. Minami
Y. Kitagawa
Y. Tanaka

1249 M. Hara
T. Kazama
M. Takeuchi

1251 Y. Sato
I. Toriumi
F. Takino
Y. Matsukura
E. Kimura
Y. Sugimoto

1252 T. Kazama
M. Takeuchi
K. Kotohda
E. Kimura
T. Tahara
K. Morioka

1253 T. Ohta
K. Muto
Y. Hagiwara
S. Kondo
K. Endo

1254 J. Yoshihara
S. Watanabe
S. Shimaguchi

1255 Y. Azuma
S. Komori
Z. Ohkubo

1256 Y. Ohsawa
H. Aoyama
M. Ito

1271 Y. Ohtsuki
H. Yamahara
K. Fujii

1272 E. Kimura
N. Iwatsuki
S. Watanabe

1362 T. Tsunoda
S. Watanabe
T. Fukushima
J. Yoshihara
S. Shimaguchi

1363 Y. Kitagawa
Y. Ohsawa
M. Murakami

1365 Y. Ohsawa
M. Murakami

1366 T. Tanaka
H. Tajimi
N. Kajitani

1367 E. Kimura
K. Sato
Y. Ohsawa

1368 Y. Kitagawa
M. Murakami

1369 T. Tsunoda
S. Watanabe

1370 H. Sasao
K. Takeyama
T. Ohta
K. Endo

1394 M. Yamada
H. Uno
T. Goto

1423 Y. Takemura
R. Tanabashi
H. Ishizaki
K. Kaneta
N. Shinkai
S. Watanabe
T. Tsunoda

1798 R. Tanabashi
T. Kobori
K. Kaneta
R. Minai
Y. Inoue

1808 K. Kusakabe
T. Kobori
R. Minai
K. Kusakabe

1809 T. Kamata
T. Kobori
R. Minai
Y. Inouye

1812 K. Kusakabe
T. Kobori
R. Minai
T. Suzuki

1817 H. Kushida
I. Funahashi
K. Funaki

2028 M. Iguchi
S. Tani
J. Sakurai
T. Yajima

2029 Y. Tanaka
S. Tani
J. Sakurai

2031 T. Minami
H. Umemura

2034 T. Hisatoku
T. Kobori
R. Minai
Y. Inouye

2035 K. Uchida
K. Muto
H. Takase

2036 T. Nishikawa
Y. Ohsawa
H. Umemura

2037 M. Kono
T. Kobori
R. Minai
H. Takeuchi

2038 Y. Hagiwara
K. Muto
T. Koh
H. Takase

2046 K. Saito
I. Funabashi
K. Kinoshita

2048 M. Iguchi
S. Tani
J. Sakurai

2051 K. Tamamatsu
H. Kobayashi

2053 T. Koh
K. Muto
K. Uchida
T. Tsugawa

2054 T. Tsugawa
K. Muto
H. Takase
K. Masuda

2055 M. Inouye
K. Muto
M. Nagata
T. Tsugawa

2261 C. Katsuta
T. Tajime
N. Mashizu

2262 T. Tajime
C. Katsuta
N. Mashizu

2310 K. Fujita
T. Shiga
N. Matsuda
S. Ito
J. Ikai
E. Ikeda
T. Shioda
J. Inazuki

2311 K. Fujita
T. Shiga
J. Suzuya
N. Matsuda

2358 K. Nishino
H. Umemura
S. Miki
H. Ohba

2359 K. Kono
Y. Tanaka

2360 T. Kamiya
O. Matsuoka
T. Matsui
H. Tanabe
K. Tanaka
and three others

2361 M. Suko
T. Kato
H. Akiyama
N. Uchida

2364 M. Fujimoto
H. Hanekura
T. Suzuki

2365 M. Fujimoto
T. Nanba

2367 Y. Suenaga
Y. Shigenobu
Y. Murakami

2369 A. Fukushima
H. Tanaka

2370 Y.C. Lin
H. Tanaka

2371 Y. Mitsui
K. Washio
T. Togo

2372 K. Washio
T. Togo
Y. Mitsui

2373 S. Aoki
T. Kato
M. Miyoshi

2374 M. Mizuno
Y. Yokoo

2490 T. Naka
H. Saito
T. Umezawa
M. Yoshimoto
S. Abe
U. Watanobe
S. Ogawa
M. Ozaki

Complete Listing of Author's Names of Papers with Symbol # (continued)

2055 M. Inoue
K. Muto
M. Osada
T. Tsugawa

2534 S. Tsuzuki
K. Hioki
Y. Nakamoto
S. Hasegawa

2535 S. Nomura
S. Tani
I. Yamaguchi

2537 M. Hirosawa
K. Nakagawa
M. Kume
S. Kuromasa
I. Matsuzaki
M. Asakawa

2538 M. Asakawa
K. Nakagawa
M. Hirosawa
M. Kume
S. Kokusho
I. Matsuzaki

2539 I. Matsuzaki
K. Nakagawa
M. Hirosawa
M. Kume
S. Kokusho
M. Asagawa

2540 K. Ohtsuki
K. Ohno
T. Shibata
T. Arakawa

2543 Y. Suenaga
Y. Tsuboi

2548 T. Nakamura
M. Wakabayashi

2550 J. Sakamoto
A. Miyamura

2551 A. Miyamura
J. Sakamoto

2552 N. Taga
S. Igarashi
S. Takada

2555 O. Hamada
S. Kyota
M. Ito
K. Yokoyama

2556 T. Namba
M. Fujimoto
H. Yamada

2557 N. Hayashi
A. Ishida
T. Nakano
Y. Iwanaga

2558 K. Suzuki
R. Tanabashi
K. Kaneta
N. Shinkai
Y. Takemura
M. Ito

2563 Y. Sato
S. Tani
S. Nomura
T. Nagasaka
T. Murata

2564 N. Ohmori
K. Toyama
T. Osa
T. Takahashi

2565 T. Arakawa
K. Ohno
M. Obata
M. Isshiki

2572 K. Ohtsuki
K. Ohno
T. Shibata
T. Arakawa

2573 Y. Ohwada
Y. Azuma
I. Matsushita

2574 N. Taga
S. Igarashi
S. Takada
Y. Koyanagi

2578 Y. Nagai
H. Shimada
H. Takahashi

2579 T. Nagasaka
S. Nomura
Y. Sato
T. Murata

2580 Y. Sugimoto
F. Takino
Y. Matsukura
Y. Sato

2581 S. Bessho
N. Ohmori
T. Sasaki

2582 H. Anraku
T. Kato
M. Suko
T. Taniguchi

2583 K. Ohno
T. Shibata
T. Hattori

2588 R. Tanabashi
Y. Yokoo
T. Nakamura
T. Kubota
A. Yamamoto

2741 S. Tani
J. Sakurai
M. Iguchi

2742 N. Nakajima
F. Yokoyama
S. Tani
J. Sakurai
Y. Kataoka

2750 Y. Tanaka
M. Kajiwara
Y. Yamazaki

2754 M. Watabe
T. Kato
T. Naka

2762 T. Tsunoda
H. Tanaka

2780 N. Ueda
K. Muto
M. Osada
G. Kimijima

2781 M. Nitta
H. Aoyama
T. Nishikawa
I. Funahashi

2820 Y. Miyazaki
K. Kotohda
K. Morioka

2821 T. Suzuki
T. Kobori
R. Minai

2822 Y. Yamazaki
Y. Sakai
T. Aoki

2823 I. Sakamoto
K. Matsushita
H. Kishida

2847 H. Ishizaki
S. Kawamura
S. Watanabe
T. Tsunoda

2851 S. Yamamoto
T. Seki
S. Matsunaga

2853 K. Ban
Y. Gyoten
K. Mizuhata

2858 T. Seki
S. Yamamoto
S. Matsunaga
K. Miyano

2860 H. Nagaoka
Y. Yokoo
K. Yamagata

2863 T. Ikeda
M. Nikai
T. Fujii

2869 Y. Tsuboi
Y. Suenaga
T. Shigenobu

3047 E. Isomura
M. Hamada
T. Hirono
T. Shiga
Y. Ohsawa
Y. Ohsaki
H. Irizawa

3268 Y. Yokoo
T. Kuwahara
T. Horiuchi

3269 T. Horiuchi
Y. Yokoo
T. Kuwahara

3569 M. Kono
T. Kobori
R. Minai
Y. Inouye
Y. Takeuchi

3570 Y. Inouye
T. Kobori
Y. Kobori
Y. Takeuchi
M. Kono

3572 K. Kanai
S. Yoshizawa

3628 R. Tanabashi
T. Kobori
K. Kaneta
R. Minai
Y. Takeuchi
K. Tagawa

3629 R. Tanabashi
T. Kobori
K. Kaneta
R. Minai
Y. Takeuchi
K. Tagawa

3620 R. Tanabashi
T. Kobori
K. Kaneta
R. Minai
Y. Takeuchi
K. Tagawa

3655 T. Takahashi
M. Takeuchi
Y. Ohmori
N. Fukutomi

3665 Y. Tokeuchi
T. Kobori
R. Minai

3666 K. Asano
T. Kobori
R. Minai
Y. Takeuchi

3670 I. Kaneko
K. Muto
T. Koh

3672 T. Hisatoku
T. Kobori
R. Minai
Y. Inouye

3673 T. Koh
K. Muto
I. Kaneko

3674 H. Takase
K. Muto
M. Osada
T. Tsugawa

3676 A. Odaka
T. Naito
T. Suzuki

3678 T. Hisatoku
T. Kobori
R. Minai
Y. Inouye

3680 H. Tane
Y. Gyoten
Y. Nishimura

3681 T. Suzuki
A. Odaka
I. Takahashi
K. Kinoshita

3685 T. Date
I. Funahashi
K. Kinoshita

3687 I. Moritaka
T. Takeda

3688 I. Kaneko
K. Muto
T. Koh
T. Tsugawa

3809 K. Saimi
F. Sudo
H. Suizu

3810 H. Suizu
F. Sudo
K. Saimi

3889 T. Kamada
T. Kobori
R. Minai
Y. Inouye

3890 Y. Takeuchi
T. Kobori
R. Minai
Y. Inouye
T. Kamada

3934 Y. Kita
Y. Ohmichi

3936 F. Sudo
K. Sugihara
S. Kobayashi
H. Suizu
T. Teramoto

3937 F. Sudo
K. Sugihara
S. Kobayashi
H. Suizu
T. Teramoto

3938 F. Sudo
K. Sugihara
S. Kobayashi
H. Suizu
T. Teramoto

3939 F. Sudo
K. Sugihara
S. Kobayashi
H. Suizu
T. Teramoto

4009 T. Tsugawa
K. Muto
T. Ohta
I. Kaneko

4010 Y. Sonobe
T. Nishikawa
H. Umemura

Index by Author's Name

Notes

1. Authors' names are listed in alphabetical order.

2. The serial number of individual papers are used for reference of papers.

3. The previous name was placed in parentheses for authors whose legal names were changed (either by marriage or adoption).

(N.B.) Translators' Note

These Chinese names "鄭 正昌 (J.C. Jeing; 2747, 2769)" and "鄭 圴冏 (C. Keong; 4116, 4122, 4123)" are listed under "T" in the Index by Author. Probably the original editors chose to pronounce "鄭 " as "tei" which is generally accepted in Japan.

Index by Author's Name

A

B

C

D

E

F

I

1438		3290
1450		3435
1586		3439
1587		3446
1732		3462
1733		3524
1734		3558
1735		3559
1736		3560
1737		3561
1738		3562
1739		3572
1740		3581
1741		3592
1744		3595
1883		3800
1884		4284
1886		4303
1887	Kanakubo, T.	3291
1889	Kanamori, H.	0040
1891		0219
1892	Kanaya, Y.	1002
1893		1011
1894	Kambayashi, T.	1456
1895	Kanda, H.	0942
1896	Kanda, S.	0097
1897		0098
1899		0099
1900	Kanagawa, T.	1762
1901	Kaneko, I.	0457
1902		2817
1903		2818
1904		3670
1905		3673
1906		3688
1907		3712
1909		3713
1910		3734
1912		3940
1913		3941
2256		4009
2972	Kaneko, S.	3127
3056	Kaneko, T.	0408
3111	Kaneta, K.	1123
3117		1302
3118		1412
3127		1423
3243		1649
3245		1693
3246		1746
3248		1798
3249		1836
3261		1915
3264		1916

0551
0834
1124
1125
1331
1333
1354
1355
1377
1384
1385
1388
1389
1745
1746
1747
1748
1749
1750
1751
1752
1753
1754
1755
1756
1757
1759
1760
1767
1768
1771
1785
1786
1787
1789
1790
1791
1793
1794
1796
1797
1798
1800
1802
1803
1807
1808
1809
1812
1836
1837
1841
1842
1843

1857
1858
1864
1874
1879
1880
1915
1916
1917
1918
1919
1921
1922
1923
1927
1939
1942
1945
1948
1989
1990
1991
1992
1993
1994
1995
1999
2013
2014
2024
2034
2037
2112
2193
2194
2250
2251
2252
2253
2352
2396
2821
2844
3463
3464
3563
3565
3567
3569
3570
3605
3605'
3606
3607

L

1879		3720
1880		3731
1881		3789
1917		3790
1918		3791
1919		3795
1921		3796
1922		3812
1923		3813
1990		3879
1992		3943
1995		4114
2014	Minakami, T.	0121
2024		0581
2034		0582
2037		0594
2193		0614
2194		3125
2250		3239
2251		3312
2252	Minami, I.	1480
2253		1490
2396		1495
2821		1503
3551		1521
3563		4046
3565		4049
3567		4052
3569	Minami, K.	1844
3570		1871
3605		3478
3605'		4101
3606		4242
3607		4255
3608	Minami, K.	1243
3609		2397
3610		3004
3611	Minami, T.	1122
3612		1239
3613		1247
3624		1292
3625		2031
3628		2611
3629		3124
3630		3145
3632	Minato, M.	1087
3637		1088
3643		3511
3644	Mino, K.	0421
3665	Minoo, A.	0999
3666		1000
3672		1238
3678	Minobe, M.	3291
3689	Mitani, I.	2397
3690		

O

0241		3387
0242		3955
0284		3956
0394		3987
0395		
0396		
0397		
0398		4029
0449		4145
0678		4146
1099		4147
1100		4233
1101		4234
1335	Ohmori, N.	2564
1336		2581
1397	Ohmori, Y.	3655
1398	Ohmura, K.	0393
1399	Ohno, H.	0628
1400	Ohno, H.	4066
1401		4067
1403	Ohno, K.	2540
1424		2565
1425		2572
1427		2583
1579		3051
1580		4007
1581	Oh-oka, H.	1067
1582	Ohsaki, Y.	0454
1583		0627
1584		0830
1585		0832
2909		1003
2910		1248
2912		2378
2917		3047
2918		3049
2970		3265
2978		3270
2980		3277
2984		3278
2995		3279
3095		3279'
3096		3280
3106		3282
3148		3285
3162		3428
3163		3864
3232		3993
3235		4094
3301		4257
3302		4272
3303	Ohsawa, Y.	0457
3304		0525
3305		

1122		3145
1226		3250
1227		3447
1228		3461
1234		3472
1247		3509
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1257		3604
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1327		3636
1352		3691
1353		3702
1363		3722
1365		3778
1367		3798
1376		4190
1378		4243
1383		4248
1387		4258
2007	Ohshima, Y.	3407
2017	Ohshima, S.	3403
2021	Ohshima, M.	3198
2022	Ohta, S.	0421
2026	Ohta, T.	0457
2036		0468
2215		0469
2523		0518
2524		1253
2525		1282
2644		1283
2672		1284
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2674		1370
2676		1374
2682		1375
2715		1382
2716		2766
2724		2817
2735		2818
2747		3656
2751		3734
2769		3940
3001		3941
3002		4009
3003		4171
3044	Ohta, Y.	3040
3047	Ohta, Y.	0555
3051		0556
3055		0557
3079		0796
3120		0919
3121		0920
3122		0921
3123		0922
3124		0924

P

U

V

W

Z

Index by Item

Notes

1. Each article is assigned three "two digit" classification numbers. These classification numbers are listed in the following pages.

   a) Classification by purpose of study and investigation:
   26 categories (00-70)

   b) Classification by method:
   34 categories (00-90)

   c) Classification by object:
   33 categories (00-90)

2. A "six digit" classification number is then given to each article by combining three sets of two digit numbers mentioned above. The first two digits indicate classification by purpose; the second two digits,classification by method; and the last two digits, classification by subject matter. Two or more six digit classification numbers are sometimes assigned to an article, depending on its contents.

3. Indices A, B, and C are prepared as follows. In Index (A, B, C), classification numbers are listed in ascending order with respect to the (first, second, third) set of two digits. Those with the same (first, second, third) two digits are listed in ascending order of the remaining four digits. In all cases, the four digit article numbers are used for identification of individual papers.

Index A: Classified by purpose

(Purpose · Method · Object)

Index B: Classified by method

(Purpose · Method · Object)

Index C: Classified by object

(Purpose · Method · Object)

4. Examples

Example 1: Classification number 222226

26 Steel Frame Building (Object)

22 Vibration Analysis of mulitple-mass-particle systems (Method)

22 Elasto-plastic seismic response (Purpose)

Description: The above implies that paper 222226 performs vibration analysis of a multiple-mass-particle system idealized for steel frame building structures for the purpose of elasto-plastic response analysis.

Example 2:

Articles on statistics of earthquake damage investigation .....Index A 41xxxx

Articles on vibration test by shaking table .....Index B xx32xx

Articles on dams .....Index C xxxx65

Classification Number Table

Classification by Purpose

00 General introduction, introduction

Vibration Characteristics, Wave Motion Characteristics

10 General

11 Natural period, Predominant period

12 Damping

13 Vibration pattern

14 Characteristics of restoring force, Strain, Supporting force, Reaction Coefficient, Soil pressure, Water pressure

15 Elastic coefficient, Ground Coefficient, N-value

16 Plastic behavior, Overturning, Rocking

Seismic Response

20 General seismic response

21 Elastic response

22 Elasto-plastic response

Classification by Method

00 General

Wave Motion

10 General Wave Motion

11 Underground dispersion

12 Interaction

13 Multiple-layer structure

14 F.D.M.

Vibration

20 General Vibration

21 Single mass-particle system

22 Multiple mass-particle system

23 Chord (of truss) or string

24 Membrane, Shell

25 Rod, Beam

26 Plate

27 Solid

Classification by Object

00 General structure (including urban structures)

10 Method

Buildings

20 General buildings

21 Wooden

22 Reinforced concrete structure

23 Steel frame reinforced concrete structure

24 Masonry structure

25 Frame structure, PC structure

26 Steel frame structure

Tower Structure, Special Structure

30 General

31 Chimney

32 Water tank

40 Nuclear power plant

Classification by Purpose

Earthquake Motion

30 Earthquake motion in general

31 Design earthquake motion

32 Articicial earthquake motion

33 Zoning Map

Investigation of Earthquake Damage, Investigation of Earthquakes that Caused Damages

40 General

41 Earthquake damage statistics

42 Theories of earthquake damage

43 Earthquake damage distribution map

Design Method

50 Design Methods in general (Including earthquake resistant structure)

51 Laws and regulations in general

52 Design standard

53 Seismic intensity, Shearing force coefficient

Classification by Method

28 F.E.M.

Vibration Test, Wave Motion Test

30 General (including dynamic repetition

31 Shaking table test

32 Shaking machine test

33 Impact

34 Free Vibration

35 Explosion

Statics

40 Statics in general

41 Analysis

42 Static test

Earthquake Observation

50 Earthquake Observation in general

51 Observation of strong ground motion

Tremor Observation

Classification by Object

Mechanical System

50 General

51 Piping system

Civil Engineering Structure

60 General

61 Roads

62 Railways

63 Levee

64 Tunnell

65 Dam

66 Port and Harbor

67 Underground structure

68 Bridge

69 Underwater structure

Foundation

70 General

71 Pile

Classification by Purpose

54 Zoning Map

Insurance

60 Insurance

Others

70 Vibration hazard, others

Classification by Method

60 Microtremors

61 Microseisms

62 Others

Frequency Analysis

70 General

71 Fourier Analysis, Power spectrum

72 Response Spectrum

Statistics

80 Statistical device

Others

90 Others

Classification by Object

Ground

80 General

81 Sandy Soil

82 Cohesive soil

83 Rocks

84 Topographic features

Miscellaneous

90 Miscellaneous

INDEX-A

Index by Purpose

Abbreviations
Class: Classification
Art: Article shown by four-digit serial numbering

Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.
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000020	3453	005120	0460		3505		0530		2816		1939
	3456		0470	009090	3440		0531		3637		1944
	3457	005180	3446		3441		0532	101265	1528		1985
	3458	006080	0627		3483		0533	101270	1800		2132
	3464		0643		3501		0535		1804		2136
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001220	1824		4298		1807		1855		0544		1941
002010	1983	009021	3992		1812	101171	2841		0545		1943
	2070	009024	2376		1841	101200	1742		0546		1949
002020	2113	009060	3491		1842		1743		0580		1957
002040	4117		3492		1843	101220	0917		0591		2015
	4118		3496		1850		1683		0593		2026
002050	1930		3497		1866		1759		0648		2029
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	2087		1637		2252		1872	102620	2010		1470
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	2798		1658		1914	102368	1607	102865	1506		1731
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	1517		2892	102251	4108		1605		1400		1306
	1526	102080	0558		4109		1606		1401		1319
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	3742		2280		1561		0634	104171	2865		0580
103126	3741	103220	1131	103268	1590		0641	104181	0871		0587
103130	4017		1159		1592	103381	0867	104200	2315		0588
103131	1397		1320		1593	103400	2315	104221	1181		0589
	4021	103221	1110		1594	103420	1163	104222	1172		0590
103140	4129		1111		1595		1189		2434		0591
103160	0987		1116		1596		1193	104223	2617		0594
103163	1537		1183		1638		1413	104226	2606		0595
	1559		1344		1640		3858		2607		0597
103165	1449		3249		1648		3859	104266	1556		0601
	1462	103222	1112		1661		3860	104268	1641		0603
	1473		1113		1668		3861	104271	2861		0605
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	1568		1287		2883	103470	2904	105024	1101		0657
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Index by Purpose

Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.
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	0462		0739		3538		1173		1156	123070	1781
	0463		0740		3540		1198		1182		1817
	0464		0741		3556		1266		1309	123071	2858
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	0471		0743		2167		1304		1361	123120	1165
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	1412		0754		4079	113268	1646	117020	1213	123220	1329
	1423		3010		4091		1659	121080	0529	123222	1115
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	0743		3286		2036	113322	3410		1734		1201
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	2459		2585		2587		0942		3276		1136
	2532		2596		2588	151180	0909		3297	163122	1133
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	2549		2610		2605	151380	0914		0958		1209
	2553		2611	144266	1028	151381	0915	154122	2631	163160	1018
	2563		2624		1546	152070	1802	154126	2779	163165	1507
	2576		3411	144270	0981		2827	154220	1186	163166	1019
	2577		3743		0982	152071	2850		1187		4057
	2578		3744		0999	152080	0959	154222	2404	163181	0857
	2579	144223	2380		1004		1061		2451		0858
	2614		2480		1005		1235	154268	1650		0864
	2629		2490		1006	152090	1262	154280	0894		0884
144221	2409		2491		1009	152220	2041		4094		0887
	2412		2492		1010	153080	0950	158080	0621		0892
	2415	144225	1247		1011	153081	0855	159080	0622		0897
	2418		2615		1014		0865		3255		0898
	2419	144226	1205		1015		0869		3262		0899
	2426		1208		2813	153082	0659	159082	0631		0961
	2479		2290		2825		0948		0932		0988
144222	1220		2291	144271	1012		0949	161080	0558′		0991
	1255		2302		1013	153083	0852		0560		0992
	2375		2303		1875	153090	1431	162020	2804		1019
	2377		2304		2863		1434	162026	2803		1020
	2381		2305		2864		4030	162065	1490		1021
	2382		2306		2873	153166	1555	162068	1649	163221	1109
	2413		2307		2877	153170	2900	162069	1726	163225	1278
	2416		2308		2878	153180	0956	162071	2844	163260	0877
	2421		2309	144280	1007	153181	0849	162110	3879	163280	1539
	2425		2312		1008		0850	162200	2147′		1540
	2437		2313	144281	0971		0854	162280	0638	163281	0886
	2447		2314		0983	153183	0849	162781	0955		0901
	2449		2354		1003		0854	163020	1327	163320	1154
	2457		2356	145061	1040	153268	1636		2623		1243
	2460		2386	145067	1719	153280	0951	163021	2410	163322	1299
	2463		2387		1720		0954	163023	1132	163326	1300
	2467		2388		1721		1017	163060	1332	163360	0875

Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.
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163381	0833		2558		2486		2547		2058		2251
	1059		2614		2487		2608	201064	1714		3615
163426	1295	164221	2389		2498		2612	201068	1621		3623
164020	2767		2390		2500		2615	201070	1837		3632
	2794		2400		2501		2625		1848		3664
	2805		2401		2502	164226	1295		1851		3679
	2807		2402		2537		2397		1878		3703
164022	2515		2403		2538		2399	201200	1744		3705
	2516		2405		2539		2441	201220	1750		3748
	2593		2406		2540		2442		1751		3750
	2594		2407		2543		2443		1752		3756
	2717		2411		2545		2444		1753		3776
	2765		2414		2564		2476		1754	202020	1782
	2772		2420		2566		2506		1755		1784
164023	2320		2427		2567		2507		1756		1785
	2321		2428		2568		2509		1757		1786
	2322		2429		2569		2510		1758		1787
	2323		2430		2570		2512		1760		1789
	2324		2590		2571		2550		1761		1790
	2325		2591		2580		2551		1795		1791
	2326		2592		2583		2552		1809		1796
	2327		2598		2584		2554		1810		1797
	2328	164222	1294		2585		2555		1813		1798
	2329		1314		2586		2556		1816		1836
	2726		2417		2599		2562		1821		1916
164024	2288		2423		2600		2574		1822		1927
164061	1602		2432		2601		2575		1833		1942
164065	1522		2436		2602		2581	201270	1827		1948
164090	2379		2437		2603		2605		1834		1958
164120	2627		2438		2604		2613		1835		1996
	2689		2445		2619		2618		1849		2002
	2718		2446		2620		2622		1865		2050
	2760		2447		2621	164230	2557	201380	0642		2066
	2761		2448		2795	164265	1437	202000	3781		2072
	2790		2449		2796	169020	2734	202010	1918		2112
164122	2638		2452		2797		2738		1924		2212
	2650		2462		2806	169060	0878		1925		2227
	2668		2463	164223	2475	172220	2021		1928		2238
	2677		2464		2480	174110	1971		1933		3624
	2678		2465		2559		1972		1940		3625
	2682		2466		2582		1973		1950		3630
	2776		2469	164224	2422	174120	1778		1951		3634
	2787		2473		2472		1961		2135		3657
164123	2781		2474		2493	174122	1978		2184		3685
164220	1203		2478		2567	174123	2235		2207		3700
	2431		2481	164225	2488	174226	2497		2208		3701
	2494		2482		2489	200080	3256		2230		3702
	2495		2483		2503	201020	1351		2246		3709
	2535		2484		2505		1960		2247		3716

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	0768		0681	307084	0507	308090	0500	339080	4183		3322
	0769		0682	307180	0470	309010	0456	400000	2974		4257
	0770		0684		0471		0456	400020	3001	408020	0589
	0771		0685		0474		0808		3002		1909
	3559		0686		0482	309020	2679		4256		1910
	3561		0687		0511	309080	0486	400021	3117		2928
305162	0484		0688		0513		0635		3118		2980
305180	0450		0689		0591		0745		3124		2986
	0452		0690		0595		1046	400022	3081		2993
	0458		0692		0597	309081	0831		4294		2994
	0459		0693		0599	309090	0449		4296		3003
	0465		0700		0601		3498	400060	3169		3004
	0467		0701		0609	311080	3580	400061	3231		3005
	0472		0702		0632	311380	3568	400062	3170		3009
	0473		0703		0639		3585		3171		3029
	0474		0704		0664	312020	2044		3172		3030
	0475		0705		0665	312120	3573	400063	3203		3031
	0477		0706		0668	312220	3587	400064	3231		3068
	0478		0707		0669	312280	3596	400067	3234		3083
	0479		0709		0670	315100	3563	400068	3204		3084
	0480		0725		3560		3795	400069	0522		3085
	0482		0726		3576	315110	0457	400080	3012		3086
	0486		0729		3577	317120	3591	401380	4318		3087
	0647		0730		3578	317200	3593	402020	1912		3088
	3558		0735		3584		3594		2069		3089
	3574	306280	0604	307183	0453	317220	3579	402022	3069		3090
	3592		0608		0510		3590		4318		3105
	3595	307010	0712	307210	0811	319080	0657	402024	1908		3126
	4167		0798		3675	319090	3564		3151		3127
	4306		0822	307220	3696		3565	402068	2119		3128
305183	0453		2024	307270	0458	320020	3417	404020	2727		3131
306010	0711		3567	307280	0456′	321310	0839	404024	3151		3132
	0724	307080	0504		0458	323510	0931	40402(	3071		3133
	0755		0505		0468	323580	0930	404221	2499		3134
306020	1381		0506		0472		0931	405022	3075		3137
306022	1337		0515		0476		0940	405065	3189		3141
306063	3352		0568		0479	327000	3589	405069	2927		3143
306080	0509		0569		0480	327101	3586	405080	3248		3251
	0708		0573		0485	327110	3566	405168	0455		3418
	0710		0574		0487		3569	405180	0455		4155
	0718		0575		0519		3570		0461	408021	2929
	0728		0576		0524	329068	1628		2963		2988
	0732		0578		0663	329080	0481		4284		2990
	0733		0579		0665	333380	0938	406080	0716		3091
	0734		0606		0669	338090	4148		3249		3092
	0756		0607		3600		4161	408000	2907		3094
	0757		0610	307283	0662		4186		2908		3096
	0758		0611	308000	3597		4213		2918		3097
306180	0679		0613	308080	0508		4274		2920		3098

Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.
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	3350		3272		3547		3241	423268	3208		3226
	3351		3299		3548		3247	424021	3145		3227
	3366		3300		3549		4154	424022	3070	429065	3192
409063	2930		3301		4146	418021	2925		4226	429066	3194
	3205		3302		4155		2926	424066	1043		3195
	3258		3303		4164		3101		3198		3197
409065	3188		3304		4166		3108	424080	4246	429067	3235
	3191		3305		4168		3111	424122	3078		3236
409066	3375		3306		4169		3113	424166	3193		3237
409067	3232		3307		4172		3114	424222	3078	429068	3207
	3233		3308		4175	418022	3054	424270	1823		3209
409068	3201		3309		4176		3073	425080	0722		3211
	3202		3310		4177	418024	3150		0723		3212
	3206		3311		4300		4150	426080	0713		3213
409070	3345		3312		4317		4151		0714		3214
409071	3348		3313	409081	0829	418026	3053		0720		3215
409080	0577		3314		3284	418060	2925		0722		3216
	2917		3315		3347		2926		0723		3217
	2928		3316	409090	2909		2934	428022	3060		3218
	2932		3317		2910	418080	0676	428062	3228	429071	3210
	2947		3318		2911		3183	429000	4242	429080	3196
	2952		3319		2912	418090	2926	429020	3056	429090	3384
	2953		3320		2919		3101		3057		4265
	2966		3321		2921		4154		3059	431380	3267
	2967		3322		2970	419021	3144		3413		3588
	2968		3323		2972	420021	3139		3415	433422	3078
	2984		3324		2973	420031	3154	429021	3095	433580	0674
	2995		3325		3034		3155		3112	438020	3125
	2996		3326		3341		3156		3138	500000	3882
	2997		3327		3360	421062	4152	429022	3054	500020	3451
	3011		3328		3370	421380	1712		3057		3455
	3106		3329		3388	422020	1098		3082		3472
	3107		3330		3440	422022	3061		4248		3793
	3109		3331		3512		3062	429023	4264		3794
	3110		3332		3514		3063	429024	3146		3817
	3130		3333		4158		3064		3147		3831
	3163		3334		4178		3065		3148		3845
	3200		3335		4180		3066		3149		3846
	3238		3336		4234		3067	429026	3053		3863
	3239		3337		4249	422032	3160		3080		3869
	3240		3338		4262	422062	1888	429060	3166		3870
	3242		3339		4301	422063	1519		3167		3871
	3243		3340	412031	1419	422122	3055		3184		3878
	3244		3341	412121	3267		3077		3186		3885
	3245		3343		3588	422222	3058		3199		3886
	3246		3344	418000	4149		3076		3342		3894
	3247		3349	418020	2934		3079		3346		3895
	3248		3486		3056	422568	4147	429061	4268		3898
	3258		3504		3059	423222	1256	429062	3220		3988

INDEX-B

Index by Method

Abbreviations

Class: Classification

Art: Article shown by four-digit serial numbering

Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.	Class.	Art.
000000	3452	400020	3002	500020	3894	500026	3950	540980	1086	101080	0619
	3478		4256		3895		3951	001000	1966		0649
	3507	400021	3117		3898	500060	4038	101000	1886	101081	0564
	4319		3118		3988	500068	4067		1887	101082	0939
000020	3453		3124		4206	500070	3465	101068	1664	101083	0947
	3456	400022	3081		4212	510000	3437		1671	101084	0653
	3457		4294		4219		4221	101070	1747		0673
	3458		4296		4241		4239		1748	111010	2171
	3464	400060	3169		4280	510020	3428		1749	121080	0529
	3466	400061	3231	500021	3835		3462		1772	141070	1051
	3467	400062	3170		3953		3516		1807	141071	2882
	3469		3171		3954		3517		1812	141080	0893
	3470		3172		3967		3518		1841	151080	0844
	3473	400063	3203		3968		3519		1842		0845
	3475	400064	3231		3969		4211		1843		0846
	3476	400067	3234		3984		4223		1850		0913
	3477	400068	3204		3989		4279		1866		0941
	3839	400069	0522		3993		4285		1870	151081	0853
	3840	400080	3012		4184		4290		2808	151082	0905
	4189	420021	3139	500022	3459		4313		2809	151083	0851
	4191	420031	3154		3460	520020	3515	101080	0511		0916
	4200		3155		3480		3521		0513		0942
000021	3454		3156		3862		3991		0526	161080	0558
	3474	500000	3882		3901		4197		0527		0560
000070	3442	500020	3451		3920		4224		0528	201020	1351
000080	3442		3455		3923		4254		0529		1960
000090	3506		3472		3924	520066	1535		0530		1987
100020	0624		3793		3925	530000	3479		0531		2058
	3261		3794		3926	530020	3468		0532	201064	1714
100021	3993		3817		3949		3793		0533	201068	1621
100069	0522		3831		4204		3814		0535	201070	1837
100080	0522		3845	500024	3983	540020	3814		0536		1848
	0624		3846		3994	600020	2427		0547		1851
	3256		3863	500025	3834	700000	3373		0548		1878
200080	3256		3869		3889		3374		0549	211065	1450
300000	0559		3870		4001		3381		0550	221010	2145
	3435		3871		4215		3385		0551	301080	0540
320020	3417		3878	500026	3834	700020	3471		0553		0552
400000	2974		3885		3908	700090	3373		0561		0554
400020	3001		3886		3948		3374		0617		0555

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	0557	301180	0834		1810		3595		2015		1503
	0562	001220	1824		1813		3599		2026		1505
	0571	101200	1742		1816		3601		2029		1510
	0600		1743		1821		3602		2048		1512
	0918	101220	0917		1822	311380	3568		2049		1517
	0919		1683		1833		3585		2051		1526
	0920		1759	201270	1827	321310	0839		2052		4048
	0921		1765		1834	401380	4318		2064		4052
	0922		1766		1835	421380	1712		2068		4053
	0923		1767		1849	431380	3267		2071	102066	1576
	0924		1768		1865		3588		2073	102068	1623
	0925		1774	211267	1615	531300	3524		2078		1624
	0926		1805		1718	701380	0835		2083		1627
	0927		1808	211268	1614	221480	1441		2084		1631
	0929		1811	221220	1745	002010	1983		2085		1633
	0937		1815	101310	0746		2070		2086		1634
	0943		2816	101370	1857	002020	2113		2087		1637
	0946		3637	101380	0471	002040	4117		2089		1639
301081	0840	101265	1528		0537		4118		2094		1643
	0889	101270	1800		0538	002050	1930		2095		1651
	0912		1804		0539	102000	2028		2097		1653
301090	0534		1825		0541	102010	1890		2104		1655
	0566		1828		0542		1939		2798		1658
	0567		1831		0543		1944		2799		1662
311080	3580		1856		0544		1985		2800		1678
421062	4152		1863		0545		2132		2801		1685
501020	3800		1867		0546		2136		2802		1690
501070	1830		2131		0580		2144		3438		1701
701080	0744		2826		0591		2160	102021	1263		2133
701090	0863		2829		0593		2177		1895		2140
101167	4096	101280	0917		0648		2178		1897		2165
101170	1788	111220	1806		0651		2181		1899		2168
	1801	111270	1773		0652		2188		1900		2176
	1855	121220	1769		0654		2190		1907		2179
101171	2841	141270	0957		0661		2253	102026	1275	102069	1728
121120	1732		0976		0664	102020	1096	102030	1891	102070	1770
	1733	201200	1744		0670		1236		1893		1771
	1734	201220	1750		1919		1271		1894		1826
	1735		1751	121380	0945		1792		2006		1839
	1736		1752	151380	0914		1793		2035		1859
	1737		1753	151381	0915		1794	102040	4134		1864
	1738		1754	201380	0642		1883	102050	1126		1876
	1739		1755	211320	3439		1889	102060	2142		1881
	1740		1756	211380	1443		1892		2155		1926
	1763		1757	301380	0609		1905		2166		2088
121168	1586		1758		0632		1929	102062	1711		2817
	1587		1760		3562		1941	102063	2169		2818
131170	1783		1761		3571		1943		2170		2833
151180	0909		1795		3572		1949	102065	1480	102071	1679

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502065	2164		3489		1969	122226	1218		3642		2236
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	1698		3645		1974	122268	1620		3653	212220	1212
	2124		3647		1976	132210	2214		3655		1934
	4073	222100	2628		1980	132220	1959		3656		2038
	4081		3490		2000		2036		3658		2055
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	3540		3627		2043	162200	2147		3686		3788
	3550		3638		2047	162280	0638		3687	212230	1428
	3552	222120	2008		2050	172220	2021		3688		4017
	3553		2630		2056	202200	4214		3712	212231	4005
	3556		3640		2094	202210	1917		3713		4006
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702000	1967	222166	4056		2187		2224		3728	212232	4011
	1968	312120	3573		2195		2228		3729		4025
	1977	412121	3267		2218		2229		3734	212265	1452
702010	1981		3588	102223	1242		2231		3749		1453
	1986	422122	3055	102226	1094		2237		3753		1471
	2109		3077		2057		3665		3784	212268	4083
	2110	502120	3423	102230	1409		3733	202222	3691		4084
702020	1372		3424	102250	4110		3752	202223	1232	222200	3707
	1982		3851	102251	4108	202220	1847		3484	222210	2203
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	2090	532120	3535	102260	2159		1975		3660		2213
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212100	3488		1906		1846		3617		1845		3668
	3564		1914	112200	2189		3619		1873		3670
	3565		1953	112220	2018		3621	202280	0650		3672
212110	3636		1956		2036		3622		0663		3692
	3718		1964	112230	1426		3635	212210	2204		3711

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	3760		3541	112520	2096	212769	0994		4015		2210
	3769		3544		2100	222782	1448	103031	1399	143021	1447
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	3783		3557	112568	1610	102865	1506	103062	1706	143026	1301
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222222	3786	102368	1607		1936	102869	1729		1470		1330
222223	3944	532320	3542	202510	2183	102870	1832		1513		1444
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	3941	102410	2182	202530	3663	132868	1676		1516	143068	1642
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222280	3782	212410	2198	202531	4019	202865	1460		1574		1694
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312220	3587	102500	1954		1464	202869	4092	103068	1597		2815
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422222	3058		2001	212531	4014	212880	4013		1625		2888
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	3789		1417	422568	4147		1147		0602	153080	0950
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	3802		2161	532520	3530		1315	113020	1123	153082	0659
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	1107		1681	143171	0977		0898	503140	4119	103265	1461
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	2765	504025	2759		2652		2742		2761		2348
	2772		3902		2653		2743		2790		2349
164023	2320		3903		2654		2744	164122	2638		2350
	2321		3904		2655		2745		2650		2351
	2322	504026	2202		2656		2746		2668		2352
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164061	1602	504080	2819		2667		2770	174120	1778		2718
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	3868		2635		2705	144168	4078		2101		3836
	3884		2636		2706	144171	2854		2102		3837
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	2796	174226	2497		2363	105010	0817		0610		1363
	2797	204220	2384		2364		0818		0611		1365
	2806	304221	2499		2365		0819		0612		1368
164223	2475	404221	2499		2366		0820		0613		1378
	2480	424222	3078		2367	105020	1343		0632		1380
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009024	2376		0745		2971		4146		2999		4157
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	3441		2916		3308		4234		3027		4229
	3483		2920		3310		4240		3028		4230
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	0932		2954		3339		2987		3135		3119
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	4253		3406		3291						
	4304		3900		3292						
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549080	0656		0826		3382						

INDEX-C

Index by Object

Abbreviations

Class: Classification

Art: Article shown by four digit serial numbering.

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	4319		3564		2940		3310		4173	538000	3421
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009000	2935	222100	2628		2942		3313		4176		4278
	3162		3490		2943		3318		4177	700000	3373
	3436		3758		2944		3319		4181		3374
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	2146		2184		2278		0785		3675		3473
	2156		2207	207210	3725		0786	309010	0456		3475
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	2158		2247	212010	2201		0790	321310	0839		3840
	2174		2249		2206		0791	323510	0931		4189
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	1439		3615	212110	3636		0793		3569		4200
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	3366		1513	143165	1481	709065	4042	101167	4096		1670
421062	4152		1514		1499	102066	1576	103167	1715		1675
422062	1888		1516	144065	1053	103066	1547		1722		2147
428062	3228	103165	1449		4047		1574	103567	2899		3708
429062	3220		1462		4049		1731	105167	2810		4085
	3225		1473		4054	103166	1545	122267	1617	102368	1607
	3226		1474	149065	1025		1562	145067	1719	102568	1579
	3227		1476	162065	1490		1566		1720		1580
502062	1708		1496	163065	1509		1567		1721		1581
704262	3223		1498	163165	1507		1568		1723		1582
102063	2169		1500	164065	1522		2267	202267	1762		1583

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	1585	113168	1652	305068	0523	212069	1534		2818		0982
	1591	113268	1646	329068	1628	212569	1724		2833		0999
	1598		1659	400068	3204		4069	102270	1684		1004
	1603	115168	1666	402068	2119		4093		1871		1005
	1604	116068	1646	405168	0455	212769	0994		1872		1006
	1605	121168	1586	409068	3201	213069	0993		1875		1009
	1606		1587		3202	400069	0522		2903		1010
	1612	122068	2137		3206	405069	2927	102870	1832		1011
	1613	122268	1620	422568	4147	000070	3442		1858		1014
	1619	123168	4077	423268	3208	009070	3482	103070	2134		1015
	2121	123268	1635	429068	3207	101070	1747		2811		2813
	2125	123468	1589		3209		1748	103170	1860		2825
103068	1597	132268	4086		3211		1749		2835	152070	1802
	1599	132868	1676		3212		1772		2905		2827
	1625	133168	1702		3213		1807	103270	1852	153170	2900
	1626	142068	1039		3214		1812		1861	201070	1837
	1630		1692		3215		1841		2812		1848
	1691		1695		3216		1842		2814		1851
103168	1644	143068	1642		3217		1843		2823		1878
	1681		1689		3218		1850		2828	201270	1827
103268	1590		1694	500068	4067		1866	103470	2904		1834
	1592	144068	1677	502068	1645		1870	103570	2822		1835
	1593	144168	4078		1698		2808	111270	1773		1849
	1594	153268	1636		2124		2809	112770	2106		1865
	1595	154268	1650		4073	101170	1788	113070	1868	202070	1829
	1596	162068	1649		4081		1801	122070	2821		1840
	1638	201068	1621	504068	4072		1855	123070	1781		1877
	1640	202068	1669		4075	101270	1800		1817		4095
	1648		1682		4076		1804	124270	0872	202170	2902
	1661		1693		4087		1825	131170	1783	202270	1844
	1668		3704		4089		1828	133170	1779		1845
	1680		4080		4291		1831	133570	1727		1873
	1688		4088	508068	4071		1856	141070	1051	212070	3643
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	2172	205068	1699		4065		2829	143170	1052		1820
	2173		1704	529068	4062	101370	1857		1544		1854
	2175	205168	1705	703468	1601	102070	1770		2824		3583
	4079	211268	1614	704168	1609		1771	143270	2820	307270	0458
	4091	212068	1700	704268	1600		1826		2901	409070	3345
112268	1654	212268	4083	100069	0522		1839	144070	0969	424270	1823
112568	1610		4084	102069	1728		1859		1045	500070	3465
	1935	212568	1616	102869	1729		1864		1656	501070	1830
	1936		3706	123469	1725		1876		2830	504070	4100
112668	1608		4063	162069	1726		1881		2834	504170	2355
113068	1629		4070	202069	2130		1926		4099	509070	4082
	1632	218068	1618	202869	4092		2088		4101	532570	4068

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704270	0997	144071	1016	006080	0740	101380	0652	105080	0578	106080	0519
	1000		2852	009080	0618		0654		0579		0524
	1001		2891		0625		0661		0580		0585
	1002		2895		0626		0664		0587		0587
101171	2841		2897		0635		0670		0588		0641
102071	1679	144171	2854		0636		1919		0589		0656
	1697		2855		0644	102080	0558		0590		0661
	2874		2856		2935		0658		0591		0666
	2881		2859		3505		1838		0594		0671
	2889		2864	100080	0522	102280	0650		0595		0675
	2890	144271	1012		0624		1846		0597		0678
	2892		1013		3256	103080	0599		0601		0691
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103071	2887		2863		0513	103180	1093		0605		0695
	2893		2864		0526	103280	0585		0606		0696
103171	1560		2873		0527		0587		0607		0697
	2266		2877		0528		0595		0609		0698
	2836		2878		0529		0597		0610		0699
	2894	152071	2850		0530		0600		0611		0710
	2896	162071	2844		0531		0623		0612		0713
	2898	202071	2141		0532		0640		0613		0714
	2906	203171	2273		0533		0641		0632		0715
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	2848	205171	2842		0536		0664		0641		0717
	2879	217271	2871		0547		0666		0645		0720
	2880	409071	3348		0548		0669		0654		0721
	2883	429071	3210		0549		1152		0657		0727
103371	2849	704171	2845		0550		3253		0661		0736
104171	2865		2860		0551	103380	0586		0664		0737
104271	2861		2869		0553		0634		0667		0738
	2862	704271	0862		0561		0641		0668		0739
	2865		0995		0617	103580	0585		0669		0740
	2870		0996		0619		0587		0670		0741
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	0667		2838	101280	0917		0615		0739		0743
113271	2885		2839	101380	0471		0629		0747		0747
	2886		2840		0537		0633		0797		0748
113471	2853		2843		0538		0640		1853		0750
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141071	2882	708071	2867		0542		3288		3286		0753
142071	2857		2868		0543	105080	0496		3296		0754
143071	1558	000080	3442		0544		0504	105180	0452		3010
	2888	004280	0965		0545		0565		0462		3250
143171	0977	005080	0466		0546		0568		0463		3257
	0998		0516		0580		0569		0464		3286
143271	0972	005180	3446		0591		0573		0465		3288
	2851	006080	0627		0593		0574		0471		3293
	2876		0643		0648		0575	106080	0452		3298
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329080	0481		3302		4155	706280	1390		1044		0865
333380	0938		3303		4164	709080	0627	103281	0880		0869
339080	4183		3304		4166		0628		0882	153181	0849
400080	3012		3305		4168		0825		0963		0850
401380	4318		3306		4169		0826		0964		0854
405080	3248		3307		4172		0827	103381	0867	153281	0879
405180	0455		3308		4175		0936	104181	0871	153381	0847
	0461		3309		4176		1068	123181	1777		0888
	2963		3310		4177		1069	123281	0902		0910
	4284		3311		4300		1070	142081	0973		0933
406080	0716		3312		4317		1071	143081	0891	153481	0873
	3249		3313	418080	0676		1072		0979	162781	0955
409080	0577		3314		3183		1073		1042	163081	0830
	2917		3315	421380	1712		1074		1048		0832
	2928		3316	424080	4246		1075		1049		0837
	2932		3317	425080	0722		1076		1057		0866
	2947		3318		0723		1077	143181	0968		0895
	2952		3319	426080	0713		1078		0970		0903
	2953		3320		0714		1079		0974		0904
	2966		3321		0720		1080		0977		1060
	2967		3322		0722		1081		1029		1066
	2968		3323		0723		1082		1034		1067
	2984		3324	429080	3196		1083		1036	163181	0857
	2995		3325	431380	3267		1084		1037		0858
	2996		3326		3588		1085		1038		0864
	2997		3327	433580	0674		3259		1041		0884
	3011		3328	502280	2077		3273		1047		0887
	3106		3329	504080	2819		3274		1050		0892
	3107		3330		4098		3277		1056		0897
	3109		3331	504180	2059		3278		1062		0898
	3110		3332	509080	3581		3281		1063		0899
	3130		3333		3824		3282		1065		0961
	3163		3334	540980	1086		3283		1552		0988
	3200		3335	545080	3513		3285		1557		0991
	3238		3336	546080	0656		3287		1571		0992
	3239		3337	549080	0656		3289		1575		1019
	3240		3338		0660		3290		2268		1020
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	3243		3340		1088		3292		0978	163281	0886
	3244		3341		1089		3294		1030		0901
	3245		3343		3511		3295		1031	163381	0833
	3246		3344	701080	0744		4312	144081	0868		1059
	3247		3349	701380	0835	003181	1022		0896	223181	0989
	3248		3486	703080	0838	101081	0564		2831		0990
	3258		3504		3353	102081	0980	144281	0971	301081	0840
	3271		3546	703280	0744	103181	0828		0983		0889
	3272		3547	703580	0598		0870		1003		0912
	3299		3548		0934		0885	151081	0853	309081	0831
	3300		3549		0936		0962	151381	0915	409081	0829

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409081	3284	703383	0928	409090	2912	709090	3386				
	3347	703583	0935		2919		3392				
529081	1023	101084	0653		2921		3393				
703081	1058		0673		2970		3395				
703181	0848	103584	0653		2972		3420				
704081	0843		0673		2973		4170				
704281	0841	307084	0507		3034		4266				
	0842	703386	0928		3341						
	0859	000090	3506		3360						
709081	0856	009090	3440		3370						
	0985		3441		3388						
	3280		3483		3440						
	3354		3501		3512						
	3355		3502		3514						
101082	0939		3503		4158						
103082	2832		3509		4178						
103282	0620		3510		4180						
143082	0900	102090	1436		4234						
151082	0905	103090	0570		4249						
153082	0659		1435		4262						
	0948	103190	1394		4301						
	0949	143090	1430	418090	2926						
153282	0881	152090	1262		3101						
	0883	153090	1431		4154						
	0907		1434	429090	3384						
159082	0631		4030		4265						
	0932	164090	2379	504090	4029						
163082	0874	301090	0534	504290	2285						
222782	1448		0566		2286						
223382	1442		0567	548090	4202						
703582	0659	303090	0566		4210						
704282	0860		0567		4217						
709082	0824		1395		4222						
101083	0947	305090	0497		4281						
105083	0662	308090	0500		4311						
151083	0851	309090	0449	700090	3373						
	0916		3498		3374						
	0942	319090	3564	701090	0863						
153083	0852		3565	703390	1161						
153183	0849	338090	4148	704290	2283						
	0854		4161	705090	0512						
205083	0637		4186	706290	1391						
305083	0503		4213		1392						
	0507		4274	709090	0906						
	0510		4309		2289						
305183	0453	408090	2977		3356						
307183	0453		3422		3359						
	0510	409090	2909		3371						
307283	0662		2910		3376						
703383	0861		2911		3382						