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LIST OF PUBLICATIONS 1969-1991
PANEL ON WIND
AND
SEISMIC EFFECTS

MARCH, 1992

UJNR

PANEL ON WIND AND SEISMIC EFFECTS
OF
U.S.-JAPAN COOPERATIVE PROGRAM IN NATURAL RESOURCES

PUBLIC WORKS RESEARCH INSTITUTE
MINISTRY OF CONSTRUCTION

NATIONAL INSTITUTE
OF
STANDARDS AND TECHNOLOGY

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この報告書は、土木研究所長の承認を得て刊行したものである。したがって、本報告書の全部又は一部の転載、複製は、土木研究所長の文書による承認を得ずしてこれを行ってはならない。

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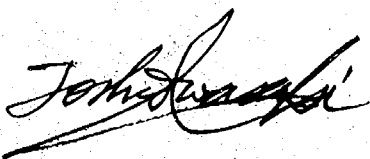
PREFACE

The Panel on Wind and Seismic Effects is one of 16 Panels making up the United States-Japan Cooperative Program in Natural Resources. The Panel's focus is on promoting the exchange of wind and seismic technology to better reduce structural, building, and lifeline damages caused by strong wind, earthquakes, high tides, and tsunamis.

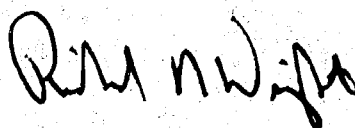
The idea of creating a List of Publications of this Panel's work first surfaced in 1988 for the occasion of its 20th anniversary. Three years later this idea was brought to realization in support of the International Decade for Natural Disaster Reduction (IDNDR). This List notifies the many organizations and individuals within IDNDR countries about the availability of this Panel's technologies.

The Japan-side Panel collected and categorized the papers which make up the listings. These papers represent 23 years of collaborations between the United States and Japanese government researchers. Over 1200 papers were published during this time. Collectively, they make a valuable contribution to the literature and is an important resource for international cooperation.

We the chairman of the Panel on Wind and Seismic Effects are pleased to be part of this major undertaking which has produced a useful resource of technologies in wind and earthquake engineering including storm surge and tsunamis. We thank all the authors found in the following pages for their useful contributions to their field of work. Their contribution form the basis for major improvements to U.S. and Japan design and construction practices.



Toshio Iwasaki
Chairman, Japan-side Panel
Director-General
Public Works Research Institute



Richard N. Wright
Chairman, U.S.-side Panel
Director
Building and Fire Research Laboratory
National Institute of Standards and Technology

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1. BACKGROUND

Responding to the need for improved engineering and scientific practices through exchange of technical data and information, research personnel, and research equipment, the United States and Japan in 1961 created the U.S.-Japan Cooperative Science Program. Three collateral programs comprise the Cooperative Science Program. The U.S.-Japan Cooperative Program in Natural Resources (UJNR), one of the three, was created in January 1964. The objective of UJNR is to exchange information on research results and exchange scientists and engineers in the area of natural resources for the benefit of both countries. UJNR is composed of 17 Panels each responsible for specific technical subjects.

The Panel on Wind and Seismic Effects was established in 1969. Sixteen U.S. and six Japanese agencies participate with representatives of private sector organizations, to develop and exchange technologies aimed at reducing damages from high winds, earthquakes, storm surge, and tsunamis. This work is produced through collaboration between U.S. and Japanese member researchers working in 11 task committees. Each committee focuses on specific technical issues, e.g., earthquake strong motion data. The Panel provides the vehicle to exchange technical data and information on design and construction of civil engineering lifelines, buildings, and water front structures, and to exchange high wind and seismic measurement records. Annual meetings alternate between the U.S. and Japan (even numbered years in the U.S.; odd numbered years in Japan). These one-week technical meetings provide the forum to discuss ongoing research and research results; one-week technical study tours follow the meetings.

The National Institute of Standards and Technology (NIST) provides the U.S.-side chairman and secretariat. The Public Works Research Institute (PWRI) provides the Japan-side chairman and secretariat.

Cooperative research is performed through formal Panel Programs. Six joint cooperative programs have been initiated. The first was cooperative research on reinforced concrete structures that was performed during 1979-1987. The second, cooperative research for steel structures conducted during 1982-1987. The third joint research project, lifeline facilities, was started in 1982 and is continuing. The fourth program, in-situ testing methods for liquefaction was initiated in 1983 and completed in 1986. In 1984, the fifth joint research program was started on masonry building structures; it is nearing completion. The sixth coordinated program is on precast seismic structural systems; it was initiated in 1991.

Task Committee meetings, exchanges of data and information through technical presentations at annual Panel Meetings, exchanges of guest researchers, visits to respective research laboratories and informal interactions between Panel Meetings, joint workshops and seminars, and joint cooperative research programs all contribute to the development and effective delivery of knowledge that has influenced design and construction practices in both countries.

Direct communication between counterpart country organizations is the cornerstone of the Panel. Effective information exchanges and exchanges of personnel and equipment have strengthened domestic programs of both countries. There are opportunities for experts in various technical fields to get to know their foreign counterparts, conduct informal exchanges, bring their respective views to the frontiers of knowledge, and advance knowledge of their specialties.

The Panel's results have supported improvements in practices in both countries. They have;

1. created and exchanged digitized earthquake records for use as the basis of research for U.S. and Japanese geotechnics and structures;
2. produced data that advanced U.S. and Japan design and construction of bridge columns;
3. produced large-scale testing data that advanced seismic design standards for buildings;
4. created a database comparing U.S. and Japanese standard penetration tests to improve seismic design criteria for soil liquefaction;
5. created databases on storm surge and shore line interaction and on tsunamis and tsunami warning systems for use by designers to verify mathematical models of tsunamis and storm surge.

The Task Committees (T/C) are;

- T/C "A". Strong-Motion Instrumentation Arrays and Data
- T/C "B". Large-Scale Testing Programs
- T/C "C". Repair and Retrofit of Existing Structures
- T/D "D". Evaluation of Structural Performance
- T/C "E". Ground Motion and Seismic Design Forces Program
- T/C "F". Disaster Prevention Methods for Lifelines Systems
- T/C "G". Wind Characteristics and Structural Response
(Merged with T/C "D", 1988)
- T/C "G". Passive, Active, and Hybrid Control Systems (Created 1990)
- T/C "H". Soil Behavior and Stability during Earthquakes
- T/C "I". Storm Surge and Tsunamis
- T/C "J". Wind and Earthquake Engineering for Transportation Systems
- T/C "K". Wind and Earthquake Engineering for Offshore and Coastal Facilities

2. USING THIS PUBLICATION

2.1 GENERAL

Publications constitute a major end produce to the Panel's efforts. This report lists the Panel of Wind and Seismic Effects papers published during the period April 1969 through May 1991.

Published papers are found in Chapters 3 and 4 while Chapter 5 presents the Author's Index. Chapter 3 lists those papers published from Joint Meeting through the 23rd meeting. Chapter 4 lists those papers published by the Panels 11 Task Committees. Both sections list the papers in chronological order starting with the earliest paper. The Author's Index lists, in alphabetical order, all Panel Authors. Their respective papers are denoted by a four digit number used to identify their respective papers in Chapter 3 and/or 4.

An example below, illustrates information for the papers presented at the Joint Meetings. The listings are preceded by a four digit code, followed by a one or two digit code, followed by a letter code. These codes are illustrated in the example by a), b), and c). Where a) is the report designation number within a group of reports prepared for a particular Joint Meeting. The b) code designates the Joint Meeting, its date, and location. The c) code designates the subject theme.

0651^{a)}, 20^{b)}, B^{c)}

**In Situ Measurement of Pore Pressure
Build-Up during Liquefaction**

Thomas L. Holzer, Michael J. Bennett : USGS
T. Leslie Youd : Brigham Young University

For the papers published by the Panel's Task Committees, the listings are preceded by a one letter code and four digit code, followed by a one or two letter code and one digit code. These codes are illustrated in the example by a) and b). Where a) is the report designation number within a group of reports prepared for a particular Workshop. The b) code designates the Task Committee, its date, and location.

C0016^{a)}, C2^{b)}

**Development of Post-Earthquake Measures
for Buildings and Structures Damaged by
Earthquakes**

Eiichi Kuribayashi, Masaya Hirose, Tatsuo Murota
: PWRI

2.2 SAMPLE LISTING

1) JOINT PANEL MEETING

a) Paper Number

Paper Number	Joint Meeting
0001 - 0018	1
0019 - 0036	2
0037 - 0058	3
0059 - 0077	4
0078 - 0103	5
0104 - 0132	6
0133 - 0164	7
0165 - 0204	8
0205 - 0235	9
0236 - 0273	10
0274 - 0315	11
0316 - 0349	12
0350 - 0396	13
0397 - 0435	14
0436 - 0479	15
0480 - 0523	16
0524 - 0570	17
0571 - 0608	18
0609 - 0642	19
0643 - 0677	20
0678 - 0710	21
0711 - 0748	22
0749 - 0795	23

b) Joint Meeting Number

No.	Date	Location
1	Apr. '69	Tokyo
2	May '70	Washington D.C.
3	May '71	Tokyo
4	May '72	Washington D.C.
5	May '73	Tokyo
6	May '74	Washington D.C.
7	May '75	Tokyo
8	May '76	Washington D.C.
9	May '77	Tokyo
10	May '78	Washington D.C.
11	Sept. '79	Tokyo
12	May '80	Washington D.C.
13	May '81	Tsukuba
14	May '82	Washington D.C.
15	May '83	Tsukuba
16	May '84	Gaithersburg
17	May '85	Tsukuba
18	May '86	Gaithersburg
19	May '87	Tsukuba
20	May '88	Gaithersburg
21	May '89	Tsukuba
22	May '90	Gaithersburg
23	May '91	Tsukuba

c) Subject Theme

- A: Wind Engineering
- B: Earthquake Engineering
- C: Storm Surge and Tsunami
- D: Joint Cooperative Research Program
- Z: Others

d) Affiliation

Japan side ;

National Research Center for Disaster Prevention, Science and
Technology Agency (NRCDP) [~ 1990]
National Research Institute for Earth Science and Disaster Prevention,
Science and Technology Agency (NIED) [1991 ~]
Port and Harbour Research Institute, Ministry of Transport (PHRI)
Meteorological Research Institute, Japan Meteorological Agency (MRI)
Geographical Survey Institute, Ministry of Construction (GSI)
Public Works Research Institute, Ministry of Construction (PWRI)
Building Research Institute, Ministry of Construction (BRI)

U.S. side ;

Department of Commerce, National Bureau of Standards (NBS) [1901~1988]
Department of Commerce, National Institute of Standards and
Technology (NIST) [1989~]
Department of Commerce, National Oceanic and Atmospheric
Administration (NOAA)
U.S. Nuclear Regulatory Commission (NRC)
Department of Interior, Bureau of Reclamation (BUREC)
Department of Housing and Urban Development (HUD)
Department of Transportation, State of California (CALTRANS)
International Development Cooperation Agency, Agency for International
Development (AID)
Federal Emergency Management Agency (FEMA)
Development of State, Office of Foreign Buildings (OFB)
Veterans Administration (DV) [~1990]
Department of Veterans Affairs (DVA) [1990~]
Department of Agriculture, Forest Service (FS)
Department of Navy, Naval Facilities Engineering Command (NAVFAC)
Department of Navy, Naval Civil Engineering Laboratory (NCEL)
Department of Transportation, Federal Highway Administration (FHWA)
National Science Foundation (NSF)
Department of Interior, U.S. Geological Survey (USGS)
Department of Army, Corps of Engineers (CORPS)
Department of Army, Waterways Experiment Station (WES)

2) TASK COMMITTEE

a) Paper Number

Paper Number

Workshop Number

C0001 - C0012

C1

C0013 - C0030

C2

C0031 - C0051

C3

C0052 - C0079

C4

C0080 - C0098

C5

D0001 - D0017

D1

D0018 - D0035

D2

D0036 - D0045

D3

E0001 - E0015

E1

F0001 - F0017

F2

F0018 - F0039

F3

H0001 - H0008

H1

H0009 - H0014

H2

H0015 - H0033

H3

I0001 - I0024

I2

J0001 - J0039

J1

J0040 - J0060

J2

J0061 - J0087

J3

J0088 - J0118

J4

J0119 - J0141

J5

J0142 - J0181

J6

J0182 - J0213

J7

J0214 - J0232

JR1

b) Workshop Number

T/C	No.	Date	Location	Remarks
A	1	Aug. '87	Menlo Park	
B	1	Mar. '84	Tsukuba	
C	1	May '80	Los Angels	
	2	May '81	Tsukuba	
	3	May '82	San Francisco	
	4	May '87	Tsukuba	
	5	May '90	Gaithersburg	Cooperated with T/C "D"
D	1	May '83	Tsukuba	
	2	Jul. '84	Barkeley	
	3	May '85	Tokyo	
E	1	May '91	Tsukuba	
F	1	May '84	McLean	
	2	Dec. '84	Tsukuba	
	3	May '89	Tsukuba	
H	1	Aug. '85	San Francisco	
	2	May '88	Jackson Hole	
	3	Jan. '91	Tsukuba	
I	1	May '83	Tsukuba	
	2	Nov. '90	Honolulu	
J	1	Feb. '84	Tsukuba	
	2	Aug. '85	San Francisco	
	3	May '87	Tsukuba	
	4	May '88	San Diego	
	5	May '89	Tsukuba	
	6	May '90	Lake Tahoe	
	7	May '91	Tsukuba	
JR	1	Dec. '90	Tsukuba	Workshop on Seismic Retrofit of Bridge

c) Affiliation

The affiliation of the first author is presented.

2.3 ORDERING INFORMATION

Persons interested in ordering copies of the Panel's annual Proceedings, Wind and Seismic Effects, and the Workshop's Proceedings should contact with the Secretary-General, UJNR Panel, although not all papers listed are available.

Secretary-General, Japan side UJNR Panel :
Planning and Research Administration Department
Public Works Research Institute
Ministry of Construction
1, Asahi, Tsukuba, Ibaraki, 305
Japan

Secretary-General, U.S. side UJNR Panel :
Cooperative Research Programs
Building and Fire Research Laboratory
National Institute of Standards and Technology
Gaithersburg, Maryland, 20899
U.S.A.

National Technical Information Service
Springfield, VA 22161.
U.S.A.

3. PUBLISHED REPORTS INDEX of JOINT PANEL

- 0001, 1, A
Wind Measurement for Structural Design
H.C.S. Thom : Environmental Science Services
Administration
- 0002, 1, B
Comments on Earthquake Records and Analysis
William K. Cloud : Coast and Geodetic Survey, HUD
- 0003, 1, A,B
The Relation between Codes and Standards Criteria for Wind and Seismic Considerations and the Design and Construction of Federal Buildings in the United States
George B. Begg : General Service Administration
- 0004, 1, C
The March 1964 Tsunami - Its Effects on Ports and Harbors
Charles E. Lee : CORPS
- 0005, 1, B
Earth Structures and Foundations Subject to Seismic Loading
H.J. Gibbs : BUREC
- 0006, 1, A,B
Current States of Design of Bridges in the United States for Resistance to Wind Effects and Seismic Forces
Charles F. Scheffey : FHWA
- 0007, 1, B
The Problem of Ground Amplification and Ground Failure in Earthquake-Resistant Design
William B. Joyner : USGS
- 0008, 1, A
Windstorm Insurance in the United States
Thomas R. Callaway : HUD
- 0009, 1, B
Program for Insurance against Earthquake Damage
John T. Dressel : Coast and Geodetic Survey, HUD
- 0010, 1, A
Surveys on Damage to Structures Caused by Strong Winds
Warren A. Shaw : NCEL
- 0011, 1, A
Present Circumstances of Strong Wind Observation in Japan
Jiro Kawase : MRI
- 0012, 1, B
Present Status of the Observation of Strong-Motion Earthquakes in Japan
Toshiji Ariga : NRCDP
- 0013, 1, A,B
Requirements for Structural Design of Buildings against Wind and Seismic Effects
Yorihiko Ohsaki : BRI
- 0014, 1, B
Current Procedure for Earthquake Resistant Design of Harbour Structures in Japan
Satoshi Hayashi : PHRI
- 0015, 1, B
Earth Structures
Masami Fukuoka : PWRI
- 0016, 1, A,B
Specifications for Wind and Earthquake Resistant Design of Highway Bridges in Japan
Yasuo Tada : PWRI
- 0017, 1, B
Seismicity of Japan
Shun-ichiro Omote : BRI
- 0018, 1, A
A Review on the Problems in Wind-Resistant Design of Structures
Tadayoshi Ohkubo : PWRI
- 0019, 2, A
A Survey Paper on the Wind Loading of Structures
Richard D. Marshall : NBS
H.C.S. Thom : Environmental Science Services
Administration
- 0020, 2, A
Present Status of Strong Wind Characteristics Studies (in Japanese)
Seiji Soma, Tatsumi Kitaoka : MRI
- 0021, 2, A
Vertical Attack Angles of Natural Wind (in Japanese)
Tadayoshi Ohkubo, Nobuyuki Narita : PWRI
- 0022, 2, A
Estimation of Expected Maximum Wind Velocity (in Japanese)
Tatsumi Kitaoka : MRI
- 0023, 2, B
Report on Seismic Damage and Strong Motion Results Santa Rosa, California, Earthquakes of October 1, 1969
William K. Cloud, Leonard M. Murphy : Coast and Geodetic Survey, HUD

- 0024, 2, B
Report on the Port and Harbour Damage Caused by the Tokachi-oki Earthquake of 1968 (in Japanese)
Satoshi Hayashi : PHRI
- 0025, 2, B
Specific Recent Strong Motion Records in Japan (in Japanese)
Shun-ichiro Omote, Yorihiro Ohsaki, Makoto Watabe, Yoji Murata : BRI
- 0026, 2, B
Survey on the Disaster due to the Tokachi-Oki Earthquake, 1968
- Roads, Rivers and Highways Bridge -
Masami Fukuoka, Eiichi Kuribayashi : PWRI
- 0027, 2, A
Experiments on Full Scale Suspension Bridges
Charles F. Scheffey : FHWA
- 0028, 2, B
Revise of Seismic Design Specifications for Highway Bridges (in Japanese)
Yasuo Tada : PWRI
- 0029, 2, B
Bureau of Reclamation Development Work in Earthquake Engineering Design
Jack W. Hilf : BUREC
- 0030, 2, B
Damage to Structures by the Tokachi-Oki Earthquake, 1968 and Influences on Structural Design of Buildings
Yorihiro Ohsaki, Toneo Endo : BRI
- 0031, 2, B
"On the Present Situation of Practical Planning and Zoning to Prevent the Earthquake Disaster" in Japan
Yorihiro Ohsaki, Makoto Watabe : BRI
- 0032, 2, Z
Port and Harbor Research by the Corps of Engineers
Charles E. Lee : CORPS
- 0033, 2, B
Problems of the Seismic Design Standards for Port and Harbour Structures in Japan (in Japanese)
Satoshi Hayashi : PHRI
- 0034, 2, B
Foundations Investigations for Seismic Effects
H.J. Gibbs : BUREC
- 0035, 2, B
Seismic Design of Earth Structures and Foundations (in Japanese)
Masami Fukuoka : PWRI
- 0036, 2, A
Study on the Disasters Caused by Typhoons in Japan (in Japanese)
Minoru Okuda, Tatsumi Kitaoka : MRI
- 0037, 3, B
MSK Intensity Scale as Compared with JMA Intensity Scale
Takuzo Hirono, Kaoru Sato : MRI
- 0038, 3, B
The Influence of Geology on Earthquake Ground Motion-Preliminary Results from a Downhole Seismometer Array on the San Francisco Bay Shore
William B. Joyner, Richard E. Warrick : National Center for Earthquake Research, USGS
- 0039, 3, B
On Structural Inelastic Response and Human Response as Related to the Maximum Acceleration of the Earthquakes
Yorihiro Ohsaki, Makoto Watabe : BRI
Kenkichi Sawada : NRCDP
- 0040, 3, B
Average Response Spectra for Various Subsoil Conditions
Satoshi Hayashi, Hajime Tsuchida, Eiichi Kurata : PHRI
- 0041, 3, B
Vertical Ground Acceleration during Earthquake
(A Preliminary Progress Report)
William K. Cloud, Virgilio Perez : Seismological Field Survey, National Ocean Survey
- 0042, 3, B
Vibrational Characteristics of a Huge Foundation Structure
Eiichi Kuribayashi, Toshio Iwasaki, Yutaka Iida : PWRI
- 0043, 3, B
The Impact of the San Fernando Earthquake on Veterans Administration Facilities and Design Procedures
James Lefter : Civil Engineering Service, DV
- 0044, 3, B
Estimation of Liquefaction Potential of Sandy Soils
Hajime Tsuchida, Satoshi Hayashi : PHRI
- 0045, 3, C
Prediction of Long Term Tsunami Inundation at Crescent City, California, U.S.A.
Norman L. Arno, Orville T. Magoon : CORPS
- 0046, 3, B
Earth Structures under Seismic Condition
Mineo Nagamori, Kazuya Yamamura, Yasushi Sasaki : PWRI

- 0047, 3, B
Summary of Criteria Currently Used in the United States and Japan for Investigation of Foundations for Earthquakes
H.J. Gibbs : Engineering and Research Center, BUREC
- 0048, 3, A
Regional Characteristics of High Winds for Structural Design
Tatsumi Kitaoka : MRI
- 0049, 3, A
Interpolation of Design Wind Speeds for Japan
H.C.S. Thom : Environmental Data Service, NOAA
- 0050, 3, A
Full-Scale Studies of Wind Effects on Buildings in Japan
Masanori Izumi, Mitsuo Nakahara : BRI
- 0051, 3, B
The San Fernando, California Earthquake of February 9, 1971
H.S. Lew, R.D. Dikkers, Edgar V. Leyendecker, Edward O. Pfrang, Samuel Kramer : NBS
- 0052, 3, A
Wind Induced Oscillation of Bridge Members
Tadayoshi Ohkubo, Nobuyuki Narita : PWRI
- 0053, 3, A
Results of Wind Tunnel Model Tests and Field Observations of Wind Effects on the Onomichi Bridge
Tadayoshi Ohkubo, Yoshiyuki Enami : PWRI
- 0054, 3, A,B
Status Report on Research on Seismic and Wind Protection of Bridges
Charles F. Scheffey : FHWA
- 0055, 3, B
Lateral Load Tests on Multi-Storied Full-Size Building of Reinforced Concrete Wall Construction for Earthquake Resistant Design
Yasunori Koizumi, Masaya Hirose, Shin Okamoto, Taneo Endo : BRI
- 0056, 3, B
Seismic Performance Criteria for Operation Breakthrough Housing Systems
William J. Werner : HUD
- 0057, 3, A,B
An Outlook of Recent Studies in Japan on Countermeasures against Earthquake and Storm (Mainly, Studies done in Government Organs)
Toshiji Ariga, Kenkichi Sawada : NRCDP
- 0058, 3, A,B
Current Research in Wind and Seismic Effects Carried on Through NSF
Michael P. Gaus, Charles A. Babendreier, George K. Lea : NSF
- 0059, 4, A
Recent Studies on "Tatsumaki" (Spout) in Japan
Ichiro Imai, Seiji Soma : MRI
- 0060, 4, A
Adjustment of Design Wind Speed for Local Conditions
H.C.S. Thom : Environmental Data Service, NOAA
- 0061, 4, A
On the Revised Wind Resistant Design Criteria for the Proposed Honshu-Shikoku Bridges
Tadayoshi Ohkubo, Nobuyuki Narita : PWRI
- 0062, 4, A
Inphase Characteristics of Winds to 150 meters
John W. Kaufman, Kelly Hill : Aero-Astrodynamic Laboratory, Marshall Space Flight Center
- 0063, 4, A
Status Report on an Instrumentation System to Monitor and Record Wind Velocities, Directions, and Structural Responses at Suspension Bridge Sites
John J. Tomko, Richard H. Gade, Charles F. Scheffey : FHWA
- 0064, 4, A
A Resume of the Aerodynamic Investigations for the Kanmon Bridge
Tadayoshi Ohkubo, Nobuyuki Narita, Yoshiyuki Enami : PWRI
- 0065, 4, B
Some Problems in Estimating the Recurrence of Damaging Earthquakes
J.C. Stepp : Environmental Research Laboratories, NOAA
- 0066, 4, B
Characteristics of Strong Motion Accelerograms and of Damages due to Local Earthquakes
Makoto Watabe, Yutaka Matsushima, Yoshikazu Kitagawa : BRI
- 0067, 4, B
Inelastic Response of Steel Pile Structure and its Seismic Stability
Satoshi Hayashi, Hajime Tsuchida, Takamasa Inatomi : PHRI
- 0068, 4, B
Veterans Administration Earthquake Engineering Program
James Lefter : Civil Engineering Service, DV

- 0069, 4, B
Earthquake Resistability of Submerged Tunnels
Shiro Ibukiyama, Eiichi Kuribayashi, Toshio Iwasaki : PWRI
- 0070, 4, B
Performance of Building Structures during the 1971 San Fernando Earthquake
H.S. Lew : Institute for Applied Technology, NBS
- 0071, 4, B
Response Analyses of the Ground and Buildings due to Earthquakes (Summary)
Masanori Izumi, Yoshikazu Kitagawa : BRI
- 0072, 4, B
Earthquake Response of Highway Bridges and its Standardization (Summary)
Eiichi Kuribayashi, Toshio Iwasaki, Yutaka Iida : PWRI
- 0073, 4, B
General Aspect on Repair Works of Buildings Damaged by Tokachi-oki Earthquake 1968
Yasunori Koizumi, Masaya Hirose, Tetsuro Goto : BRI
- 0074, 4, A,B
Present State of Research Activity in Japan regarding Structures against Wind and Earthquake
Kenkichi Sawada : NRCDP
- 0075, 4, B
Preparation of Seismic Micro Zoning of Chimbote Area, Peru
Yasunori Koizumi : BRI
- 0076, 4, B
Geologic Control of Destruction during the Peru Earthquake of May 31, 1970
George E. Ericksen, George Plafker : USGS
- 0077, 4, A
Wind Damage due to Typhoon "Yoling" (1970) in Greater Manira Area
Tadayoshi Ohkubo : PWRI
- 0078, 5, A
Properties of High Winds Caused by the Topography and Buildings
Ichiro Imai, Seiji Soma : MRI
- 0079, 5, A
The Statistical Property of Wind Speed Fluctuations in a Storm
Ichiro Imai, Shigeru Nemoto : MRI
- 0080, 5, A
An Investigation of the Aerodynamic Behavior of the Sitka Harbor Cable-Stayed Bridge
Richard H. Gade : FHWA
- 0081, 5, A
A Cable-Stayed Bridge and its Aerodynamic Design
Tadayoshi Ohkubo, Nobuyuki Narita, Koichi Yokoyama : PWRI
- 0082, 5, B
A Preliminary Strategy for Zoning the San Francisco Bay Region on the Basis of Relative Ground Motion Predictions
Roger D. Borchardt : National Center for Earthquake Research, USGS
- 0083, 5, B
A Resume of Seismicity and Tectonics in the Andean Region
George E. Ericksen : USGS
- 0084, 5, B
Seismic Risk Estimation in the United States
S.T. Algermissen, D.M. Perkins : Seismological Research Group, NOAA
- 0085, 5, B
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Masamitsu Ohashi, Toshio Iwasaki, Fumio Tatsuoka, Ken-ichi Tokida : PWRI

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Timothy A. Reinhold : NBS

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: Techniques Development Laboratory, Systems Development Office, National Weather Service, NOAA
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- 0431, 14, D
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- 0433, 14, C
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Paul F. Krumpke : Office of Foreign Disaster Assistance, AID
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- 0437, 15, A
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- 0440, 15, B
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- 0441, 15, B
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Mamoru Mizuguchi : Shizuoka Prefectural Government
- 0442, 15, B
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- 0443, 15, B
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- 0444, 15, B
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 Roy A. Imbsen : Engineering Computer Corporation
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- 0460, 15, B
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 Stuart D. Werner, Mihran S. Agbabian : Agbabian Associates
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 Celso S. Barrientos : Assessment and Information Services Center, National Environmental Satellite, Data, and Information Service, NOAA
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 Hiroshi Hashimoto, Takaaki Uda : PWRI
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- 0469, 15, B
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- 0472, 15, B
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- 0473, 15, B
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 Tadashi Arakawa, Toshio Kimata, Masuo Kondo : PWRI
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 Celso S. Barrientos : Assessment and Information Services Center, National Environmental Satellite, Data, and Information Service, NOAA

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0489, 16, C
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James F. Lander : National Geophysical Data Center,
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0490, 16, C
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Masaya Hirosawa : BRI

Kaname Takahara : Oka-Sekkei Co., Ltd.

Tomoaki Akiyama : Tokyo Soil Research Co., Ltd.

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Toshio Iwasaki, Ryoji Hagiwara, Kinji Hasegawa, Tatsuhiro Koyama, Takeshi Yoshida : PWRI

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Lawrence G. Selna, L. Javier Malvar : University of California

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Walter Podolny, Jr. : FHWA

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Toshio Iwasaki, Yasushi Sasaki, Yasuhiko Wakisaka, Norihisa Matsumoto, Katsumi Senoo, Tadashi Arakawa, Kazuhiko Kawashima, Naomi Obinata : PWRI

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Bruce M. Douglas, Gary Norris, Lawrence Dodd, James Richardson : University of Nevada-Reno

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Keiichi Ohtani, Hiroshi Takahashi : NRCDP

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Masaya Hirosawa, Yutaka Yamazaki, Hideo Tsukagoshi : BRI

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Shoichi Saeki, Koichi Minosaku, Akira Takizawa : PWRI

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Sigmund A. Freeman : Wiss Janney Elstner Associates

Joseph P. Nicoletti : URS/Blume and Associates

George Matsumura : CORPS

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Ralph J. Archuleta : USGS

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Sadaiku Hattori : BRI

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Toshitomi Fukuta, Isao Nishiyama, Hiroyuki Yamanouchi, Masaya Hirosawa : BRI

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Ken Sudo, Yoshikazu Kitagawa, Naoki Yoshimura : BRI

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- 0515, 16, B
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- 0516, 16, C
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Takaaki Uda : PWRI
- 0517, 16, C
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Yoshinobu Tsuji, Takeo Kinoshita, Tatsuo Konishi, Hiroshi Takahashi : NRCDDP
Un Seop Peak : Central Meteorological Observatory, Republic of Korea
Kyo Sung Chu : Hydrographic Office, Traffic Division, Republic of Korea
Hui Soo An : Seoul National University, Republic of Korea
- 0518, 16, D
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- 0519, 16, D
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- 0520, 16, D
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L.A. Salomone : NBS
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- 0521, 16, D
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- 0522, 16, D
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- 0523, 16, D
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- 0528, 17, A
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- 0529, 17, B
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- 0530, 17, B
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0536, 17, B
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Yoshihiro Sugimura : BRI

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K.C. Wong : University of Colorado
A.H. Shah : University of Manitoba

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0552, 17, D
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Richard N. White, Peter Gergely : School of Civil and
Environmental Engineering, Cornell University

0553, 17, B
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Akira Yonezawa, Hajime Tsuchida : PHRI

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- 0555, 17, B
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- 0556, 17, B
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 Minoru Takeo, Naoya Mikami, Masaji Ichikawa : MRI
- 0557, 17, A
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 Gen-ichi Naito, Hiroshi Takahashi : NRCDP
- 0558, 17, A
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- 0559, 17, B
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 C.V. Chelapati : California State University
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- 0560, 17, B
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- 0561, 17, B
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- 0562, 17, B
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 Yasuyuki Koga, Osamu Matsuo : PWRI
- 0563, 17, B
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 Tsuneo Okada : Institute of Industrial Science, University of Tokyo
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- 0564, 17, B
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 Yoshikazu Kitagawa, Toshihide Kashima, Masaya Hirose : BRI
- 0565, 17, B
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- 0566, 17, C
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 Eddie N. Bernard, Richard R. Behn : Pacific Marine Environmental Laboratory, NOAA
- 0567, 17, C
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 Tatsuo Konishi, Takeo Kinoshita, Hiroshi Takahashi : NRCDP
- 0568, 17, D
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- 0569, 17, B
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- 0570, 17, B
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- 0572, 18, A
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- 0573, 18, A
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- 0574, 18, A
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- 0575, 18, A
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Masaya Hirosawa, Tatsuo Murota : BRI
- D0017, D1
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Peter Gergely : Cornell University
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J.T.P. Yao : Purdue University
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T. Kabeyasawa : University of Yokohama
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J. Stephens, J.T.P. Yao : Purdue University
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C. Meyer, M.S.L. Roufaei : Columbia University

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- D0026, D2
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Jack P. Moehle : University of California
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Shin Okamoto : BRI
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S. Ohtani, K-N. Li : University of Tokyo
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Shin Okamoto, Masaomi Teshigawara : BRI
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H. Aoyama : University of Tokyo
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G. Robert Fuller : HUD
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S. Ohtani : University of Tokyo
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Draft Standard for Evaluation of Seismic Performance of Reinforced Concrete Block Masonry School Building in Japan
Tsuneo Okada, Y. Ohwada, H. Kimura : University of Tokyo
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Earthquake Observation of the Fifth Building
Yutaka Yamazaki : BRI

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Some Engineering Aspects of Ground Motion Characteristics Clarified from PWRI Array Observation Records

Ken-ichi Tokida, Keiichi Tamura, Koh Aizawa : PWRI

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Eiichi Kuribayashi, T. Jiang, Tadashi Niino, H. Nagasaka, S. Kuroiwa, Shozo Nishioka : Toyohashi University of Technology

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Paul C. Thenhaus : USGS

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History and Status of Strong-Motion Earthquake Measurement in Japan

Keiichi Ohtani : NIED

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Earthquake Hazard and Risk (Loss) Assessment Techniques in the United States

- A Review -

S.T. Algermissen : USGS

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Seismic Hazard Assessment

- States of Practice in Japan -

Hiroyuki Kameda : Urban Earthquake Hazard Research Center, Disaster Prevention Research Institute, Kyoto University

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Engineering Risk Assessment of Seismic Ground Motion and Ground Liquefaction

Ken-ichi Tokida, Keiichi Tamura, Koh Aizawa : PWRI

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Tadao Dohi, Masaharu Tsuzawa : GSI

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Tsuneo Katayama : Institute of Industrial Science, University of Tokyo

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Characterization of Earthquake Ground Motions and Design Earthquake Loading of Highway Bridges

Kazuhiko Kawashima : PWRI

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Seismic Design Criteria to Meet Probabilistic Performance Goals

James R. Hill, Robert C. Murray, Stephen A. Short : U.S. Department of Energy

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Deterministic Seismic Design and Evaluation Criteria to Meet Probabilistic Performance Goals

James R. Hill, Stephen A. Short, Robert C. Murray, Thomas A. Nelson : U.S. Department of Energy

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Seismic Loading and Safety Evaluation for Building Code in Japan

Yoshikazu Kitagawa : BRI

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The Application of Earthquake Hazard Assessments to Building Codes in the United States

Edgar V. Leyendecker : USGS

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Japanese Experience with Seismic Design and Response of Port and Harbor Structures

Susumu Iai, Yasuo Matsunaga : PHRI

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Masanobu Shinozuka, M. Kitaura, F. Yamazaki :
Columbia University

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**Development of Model for Determining
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A. Zerva, A. H-S. Ang, Y.K. Wen : University of
Illinois

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**Wave Propagation Effects on Buried
Pipelines**
Douglas J. Nyman : NTS/Structural Mechanics
Associates

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Teoman Ariman : University of Tulsa

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**Methods of Testing Buried Lifelines in the
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J.L. Merritt : Merritt CASES, Inc.

F0006, F2

**Seismic Performance of
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Jeremy Isenberg : Weidlinger Associates

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**Research and Development in Seismic
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A. Tang : Northern CANADA Telecom Ltd.

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**Earthquake Requirements for
Telecommunications Equipment**
J.W. Foss : Bell Communications Research, Inc.

F0009, F2

**Experiments and Field Observations of
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I-Kwang Chang : International Business Machines
Corporation

F0010, F2

**Earthquake-Resistant Design of Underground
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Toshio Iwasaki : PWRI

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**Finite Ground Strains Induced during
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Design of Underground Pipelines**
Kazuhiko Kawashima, Keiichi Tamura, Koh Aizawa :
PWRI

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**Liquefaction Damage and Analysis of
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Shiro Takada, T. Sawahashi : Kobe University

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**Field Observations on Telecommunications
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Masahiro Nakano, H. Uematsu : N.T.T.

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**Seismic Performance of Telecommunication
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M. Miwa : N.T.T.

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**Seismic Risk and Assessment of Lifeline
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Hiroyuki Kameda, Tadanobu Sato : Kyoto University

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Seismic Analysis of Lifeline Networks
Hideji Kawakami : Saitama University

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Yuji Sato, Hisanobu Akagi : N.T.T.

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**Damage of Gas Pipeline from Chiba Toho-
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Tadao Mashimo : Tokyo Gas Co., Ltd.

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**Seismic Damage, Design and Research
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Leon Ru-Liang Wang : Old Dominion University

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**Damage to Buried Lifelines due to
Liquefaction - Induced Ground Displacement**
Masanori Hamada : Tokai University

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**Quantitative Relationship between Ground
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Nobuaki Nishio : Tokyo Gas Co., Ltd.

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Eiichi Kuribayashi, Jiang Tong, Tadashi Niino, Wataru
Kyokuno : Toyohashi University of Technology

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Jeremy Isenberg, Edward Richardson, Hiroyuki Kameda, Thomas D. O'Rourke : Weidlinger Associates
- F0025, F3
PWRI Observation Station of Seismic Response of Pipeline
Toshio Iwasaki, Osamu Ueda, Kazuhiko Kawashima, Kinji Hasegawa : PWRI
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Kazuhiko Kawashima, Hideki Sugita, Takashi Kano : PWRI
- F0027, F3
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M.J. Nigel Priestley : University of California
- F0028, F3
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James E. Roberts : CALTRANS
- F0029, F3
Reliability and Risk Assessment of Lifeline Systems
Masanobu Shinozuka, Hiroyuki Kameda : Princeton University
- F0030, F3
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Hideji Kawakami : Saitama University
- F0031, F3
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Tadanobu Sato, Kenzo Toki, Tomihiko Sekiya : Kyoto University
- F0032, F3
Recent Research Works on The Preventive Measures of Buried Lifelines for Liquefaction
Makoto Kawamura, Eiichi Kuribayashi, Shigeki Tsuchiyama, Akihiko Ogino : Toyohashi University of Technology
- F0033, F3
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Koji Yagi, Tadanobu Suzuki, Hiroaki Hattori : N.T.T.
- F0034, F3
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Hideyo Suzuki : Tokyo Electric Power Co.
- F0035, F3
Earthquake Hazard Mitigation for a Large Metropolitan Water District
Gary M. Snyder : Metropolitan Water District of Southern California
- F0036, F3
Lifeline Hazard Mitigation through Strategic Industrial Planning
Maryann T. Phipps : H.J. Degenkolb & Associates
- F0037, F3
Early Post Earthquake Damage Detection for Lifeline Systems
Ronald T. Eguchi, Jon D. Chrostowski, G.M. Lee : Dames & Moore
- F0038, F3
Management Strategies and Public Education Resources for Lifeline Systems during Earthquakes
Peter R. Lucarelli : Los Angeles City Fire Department
- F0039, F3
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Shiro Takada : Kobe University

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 Jeffrey A. Farrar : Engineering and Research Center, BUREC
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 Mamoru Fuyuki, Kazuma Uto : Tokai University
- H0003, H1**
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 Yasushi Sasaki, Yasuyuki Koga, Yoshihiro Ito, Takao Shimazu, Masuo Kondo : PWRI
- H0004, H1**
Comparative Study of Various Penetration Tests in Ground that Underwent Liquefaction during the 1983 Nihonkai-Chubu and 1964 Niigata Earthquakes
 Satoru Ohya, Tsuneaki Iwasaki, Mikio Wakamatsu : OYO Corporation
- H0005, H1**
A New Criterion for Assessing Liquefaction Potential of Japanese Port Area by Using SPT N-Value
 Susumu Iai, Hajime Tsuchida, Katsuhiko Koizumi : PHRI
- H0006, H1**
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 T. Leslie Youd : Brigham Young University
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 Toshio Iwasaki : PWRI
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 Kozo Higuchi, Mitsuru Goto : Honshu-Shikoku Bridge Authority
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 Yasushi Sasaki : PWRI
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 Susumu Iai, Setsuo Noda, Hajime Tsuchida : PHRI
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 Kazuya Yamamura, Yasushi Sasaki, Hideo Nakajima, Masakazu Takahashi : Nihon University
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 Susumu Yasuda, Hisashi Tsuchiya, Naonobu Narumi : Kyushu Institute of Technology
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 Masahiro Nakano, Yasushi Sasaki, Masaaki Yoshikawa, Hiroaki Hattori, Masanobu Arano : NTT Tsukuba Field Engineering Development Center
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- A Proposal of Basic Concept -
 Yasushi Sasaki : PWRI
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 W.D.L. Finn, Richard H. Ledbetter, R.L. Fleming, Jr., A.E. Templeton, T.W. Forrest, S.T. Stacy : University of British Columbia
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 Yasushi Sasaki, Ken-ichi Tokida, Hideo Matsumoto, Shoichi Saya : PWRI
- H0018, H3**
Nature of Lateral Soil Movement Induced by Earthquake Liquefaction
 Ikuo Tohata, Yukio Tamari, Kazuhiko Yamada : University of Tokyo
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 Susumu Yasuda, Hideo Nagase, Hiroyoshi Kiku, Yutaka Uchida : Kyushu Institute of Technology
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 Susumu Iai, Tomohiro Kameoka : PHRI

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Masayuki Hyodo, Kazuya Yasuhara : Yamaguchi University

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Susumu Yasuda, Iwao Morimoto, Yoshihisa Shimizu : Kyushu Institute of Technology

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Ken-ichi Tokida, Jiro Fukui, Hideo Matsumoto : PWRI

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- Seismic Design Specifications of Road Bridge and its Design Example -
Katsuya Wada, Toru Terayama : Metropolitan Expressway Public Corporation

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Yasuyuki Koga, Jun-ichi Koseki : PWRI

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Eiichi Kodama, Shin-ichi Suzuki : Tokyo Gas Co., Ltd.

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Yukihisa Tanaka, Yutaka Nakajima, Hideo Tsuboi : Institute of Electric Power Industry

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Susumu Yasuda : Kyushu Institute of Technology

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Tomoji Hirukawa, Toshihiro Meta, Y. Kawase, Y. Mizutani, M. Ohta, Hisato Kato, S. Nakamura : Trans-Tokyo Bay Highway Corporation

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Koji Yagi, Shunji Nagamachi : NTT Tsukuba Field Engineering Development Center

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Gentle-Slope Bank and Super Embankment Construction Project of the Sumida River
Kaoru Kusano : Institute of Civil Engineering, Tokyo Metropolitan Government

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 Yoshinobu Tsuji : Earthquake Research Institute, University of Tokyo
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On Frequency Modulation Observed in Two PacTOP Deep Ocean Tsunami Records
 Frank I. Gonzales : Pacific Marine Environmental Laboratory, NOAA
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 Shin-ichi Iwasaki : NIED
- I0004, I2
Modeling Implication of the 1985 Chilean Tsunami
 Gerald T. Heberstreit, M.S. Moustafa : Science Applications International Corporation
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Observation of Standing Edge Waves Trapped on the Shelf of Makurazaki Coast
 Yoshinobu Tsuji, Takashi Yanuma : Earthquake Research Institute, University of Tokyo
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 Patricia A. Lockridge : National Geophysical Data Center, NOAA
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 Hideo Matsutomi : Akita University
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 Chiaki Goto : PHRI
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 Sung B. Yoon, Philip L.-F. Liu : Cornell University
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 Shigeru Yamaki, Takaaki Uda : I.N.A. Civil Engineering Consultants Co., Ltd.
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 George Carrier : Harvard University
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Hydraulic and Numerical Experiments of Non-Linear Dispersive Waves in Two-Dimensional Wave Basin
 Fumihiko Imamura, Nobuo Shuto : Tohoku University
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 Nobuo Shuto, Chiaki Goto, Fumihiko Imamura : Tohoku University
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 Charles L. Mader : Joint Institute for Marine & Atmospheric Research, University of Hawaii
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 Takaaki Uda : PWRI
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 Zygmunt Kowalik : Institute of Marine Science, University of Alaska
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Inundation and Tsunami Waves
 George D. Curtis : Joint Institute for Marine & Atmospheric Research, University of Hawaii
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 Jane Preuss : Urban Regional Research
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Ocean Bottom Pressure Gauge for Tsunami Warning System in Japan
 Masami Okada : MRI
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Automatic Estimations of Tsunami Risk Following a Distant Earthquake Using the Mantle Magnitude M_m .
 Emile A. Okal, Jacques Talandier, Dominique Reymond : Northwestern University

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**Real-Time Determination of Earthquake
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Tsunami Warnings**

Kenji Sakate : University of Michigan

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**Assessment of Project THRUST : Past,
Present, Future**

Eddie N. Bernard : Pacific Marine Environmental
Laboratory, NOAA

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 Toshio Iwasaki : PWRI
- J0002, J1
Outline of the Specifications for Substructures of Highway Bridges in Japan
 Kazuya Ohshima, Koji Kaminaga : PWRI
- J0003, J1
Seismic Design Forces of Highway Bridges in Japan
 Kazuhiko Kawashima : PWRI
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 Tadashi Arakawa : PWRI
- J0005, J1
Dynamic Response Analysis for Seismic Design of Highway Bridges
 Ryoji Hagiwara : PWRI
- J0006, J1
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 Shigetoshi Kobayashi, Hirotaka Kawano : PWRI
- J0007, J1
Earthquake Resistant Design of Tokyo Bay Crossing Bridge
 Shin-ichi Ando, Tomoji Hirukawa : Japan Highway Public Corporation
- J0008, J1
Earthquake Resistance Design of the Meiko Nishi Bridge
 Michio Takahashi : Japan Highway Public Corporation
- J0009, J1
A Dynamic Analysis of a Multi-Span Continuous Bridge
 Mitsuo Hara : Metropolitan Expressway Public Corporation
- J0010, J1
Earthquake Resistant Design for Cable Stayed Bridge
 - Ajigawa Bridge, Hanshin Expressway
 Susumu Emi, Hiroyuki Nakajima : Hanshin Expressway Public Corporation
- J0011, J1
Earthquake Resistant Design of Bannosu Viaduct
 Kozo Higuchi : Honshu-Shikoku Bridge Authority
- J0012, J1
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 Shigetoshi Kobayashi : PWRI
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 Kazuya Ohshima : PWRI
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 Shoichi Saeki, Toshitaka Miyata, Koichi Minosaku : PWRI
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 Tadashi Arakawa : PWRI
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 Toshio Iwasaki : PWRI
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 Tsutomu Kadotani, Hiroshi Yoshida : Japan Highway Public Corporation
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 Hiroyoshi Miyauchi : Metropolitan Expressway Public Corporation
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 Hiroyuki Nakajima : Hanshin Expressway Public Corporation
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 Mamoru Yamagata : Honshu-Shikoku Bridge Authority
- J0021, J1
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 James D. Cooper : FHWA
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 James H. Gates : CALTRANS
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 H.S. Lew : NBS

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Lawrence F. Spaine : Transportation Research Board

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Lawrence G. Selna : University of California

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Roy A. Imbsen : Engineering Computer Corporation

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Seismic Response of Meloland Road Overpass
Stuart D. Werner, M.P. Levine, J.L. Beck, Sami F. Masri : Agbabian Associates

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Richard W. Arden : S.E.A. Inc. Consulting Engineers / Planners

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Ahmed M. Abdel-Ghaffar : Princeton University

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AASHTO and Bridge Earthquake Engineering
Jack Freidenrich : New Jersey Department of Transportation

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Seismic Design Guidelines for Highway Bridges
- A Brief Overview Concerning their Use
James Dodson : Nevada Department of Transportation

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Highway Bridge Design Specifications for Seismic Loads in U.S.
Veldo M. Goins : Oklahoma Department of Transportation

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John F. Fleming : University of Pittsburgh

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Bruce M. Douglas : University of Nevada

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John B. Scalzi : NSF

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H.S. Lew : NBS

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FHWA Program of Earthquake Engineering Research
James D. Cooper : FHWA

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James H. Gates : CALTRANS

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Lawrence F. Spaine : Transportation Research Board

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Basic Design Considerations for U.S. Long-Span Bridges Relative to Wind
Robert H. Scanlan : Princeton University

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Hirohiko Tada, Koichi Yokoyama, Hiroshi Sato : PWRI

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Eiichi Kuribayashi, Toshio Iwasaki, Osamu Ueda : Toyohashi University of Technology

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James H. Gates : CALTRANS

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Masahiko Kitazawa, Tetsuo Oku : Hanshin Expressway Public Corporation

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Isamu Kano, Katsuaki Takeda : NKK Corporation

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Robert H. Scanlan : Princeton University

- J0047, J2
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Robert L. Wardlaw : National Research Council of Canada
- J0048, J2
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Kano, Isamu	J0045			Kinoshita, Shigeo	0190,	0215,	0531,
Kano, Takashi	0639,	F0026			0577		
Kanzaki, Kazuo	0467,	0480,	0571	Kinoshita, Takeo	0517,	0567	
Kashima, Satoshi	J0068,	J0144		Kinoshita, Yasushi	0728		
Kashima, Toshihide	0564,	0608		Kishi, Shinkichi	0636		
Kashimura, Yoshiaki	0471			Kitagawa, Yoshikazu	0066,	0071,	0087,
Kashiwagi, Jun	0683				0142,	0222,	0245,
Katagiri, T.	C0084,	C0097			0283,	0320,	0395,
Katayama, Tsuneo	E0009				0428,	0429,	0495,
Kato, Ben	0732,	C0073			0513,	0564,	0614,
Kato, Hisato	H0029,	J0210			0659,	0764,	C0025,
Kato, Masafumi	J0087			Kitaoka, Tatsumi	C0063,	E0013	
Kato, Shugo	J0140				0020,	0022,	0036,
Katsukura, H.	D0011				0048		
Katsumata, H.	C0067,	C0068,	C0098	Kitaura, M.	F0001		
Katsuragi, Masataka	0250			Kitazawa, Masahiko	J0044,	J0048	
Kaufman, John W.	0062,	0437		Kitazawa, Sosuke	0329		
Kawaguchi, Hiroshi	J0148			Kiyomiya, Osamu	0225,	0382,	0409
Kawaguchi, Koji	J0068			Kiyota, Renji	J0194		
Kawakami, Hideji	F0016,	F0030		Klalber, F. Wayne	J0104		
Kawakami, Kenji	0156,	0157		Kobatake, Y.	C0067,	C0098	
Kawakita, Shiro	J0168			Kobayashi, Hiroyoshi	0730		
Kawamata, Shigeya	C0023			Kobayashi, Kiyoshi	J0202		
Kawamura, Makoto	F0032			Kobayashi, Motoo	0298,	0373	
Kawano, Hirotaka	J0006,	J0201,	J0228	Kobayashi, Shigetoshi	0586,	C0014,	J0006,
Kawasaki, Hiromi	J0196				J0012,	J0072,	J0228
Kawasaki, Ishio	0158			Kobayashi, Tetsuhisa	J0197		
Kawase, Jiro	0011			Kodama, Eiichi	H0026		
Kawase, Y.	H0029			Koester, Joseph P.	0771		
Kawashima, Kazuhiko	0185,	0220,	0264,	Koga, Yasuyuki	0112,	0148,	0300,
	0288,	0299,	0316,		0416,	0549,	0562,
	0350,	0403,	0444,	Kogure, Fukashi	0569,	0582,	0586,
	0500,	0510,	0547,	Kohwal, Naokazu	0602,	0621,	0637,
	0584,	0586,	0631,	Kotzum, Katsuhiko	0651,	0666,	0690,
	0639,	0675,	0706,	Kotzum, Yasunori	0725,	0754,	H0003,
	0721,	0731,	0766,		H0012,	H0025	
	E0010,	F0011,	F0025,		J0225		
	F0026,	J0003,	J0055,	Komada, Keiichi	0101		
	J0065,	J0083,	J0098,	Kondo, Masuo	0623,	H0005	
	J0100,	J0102,	J0122,		0055,	0073,	0075,
	J0157,	J0185,	J0188,		0149		
	J0190,	J0214,	J0224,		0121,	0156	
	J0232				0475,	0510,	0549,
	0608,	C0034			0561,	H0003	
Kawashima, Toshikazu	J0184				0296,	0369	
Kayano, Shigeru	0688				0477,	0517,	0545,
Kazama, Motoki	J0182				0567		
Kazama, Toru	0483			Konno, Hisashi	J0186		
Kelly, Donald L.	J0053			Kosaka, Hiromi	J0081,	J0098,	J0131
Kelly, James M.	J0069,	J0107		Koseki, Jun-ichi	0651,	0725,	0754,
Keto, Hideyuki	0740				H0012,	H0025	
Khater, M.	J0061			Kovacs, W.D.	0520		
Kikawa, Hiroshi	H0019			Kowalik, Zygmunt	I0018		
Kiku, Hiroyoshi				Koyama, Tatsuhiko	0497,	0547,	0631,
					J0055,	J0083	
				Kramer, Samuel	0051,	0102	
				Krimgold, Frederick	0269,	0306	
				Krimm, Richard W.	0648		
				Krintzsky, Ellis L.	0197,	0246,	0735

Krumpe, Paul F.	0433,	0753,	0795	Liu, Shih Chi	0269,	0306,	0390,
Kubo, Tetsuo	0281,	0297,	0395		0432,	0767,	0779
Kubota, Toshiyuki	0262,	0395,	0720,	Liu, Wen David	J0080,	J0108,	J0165
	C0012			Llorente, Carlos	0287		
Kulkid, John M.	J0135,	J0205		Lockridge, Patricia A.	0544,	0627,	0781,
Kulkov, Ye.A.	I0002				I0006		
Kumagai, Yoshio	0342			Longinow, Anatole	0124,	0233	
Kumaki, Yosuke	0418			Loomis, Harold G.	I0014		
Kunihiko, Tetsuo	0194,	0207		Lovett, Thomas G.	J0155		
Kuo, Pei-Hong	C0033			Lu, Le-Wu	C0091		
Kurasawa, Sadao	J0182			Lucarelli, Peter R.	F0038		
Kurashige, Kiyoshi	0205			Luebke, T.A.	0588		
Kurata, Eiichi	0040,	0176,	0213,	Luehring, R.W.	0485		
	0242,	0352,	0442	Lund, LeVal	0740,	C0036	
Kuribayashi, Eiichi	0026,	0042,	0069,				
	0072,	0096,	0100,				
	0114,	0144,	0147,	MacDonald, Robert B.	0530,	0736	
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	0179,	0192,	0220,	MacRae, Gregory A.	J0190,	J0232	
	0231,	0266,	0267,	Mader, Charles L.	I0016		
	0268,	0307,	0340,	Maeda, Yoshito	J0102		
	0343,	0367,	0371,	Maekawa, Y.	D0021		
	0391,	0411,	0419,	Magoon, Orville T.	0045		
	C0007,	C0014,	C0016,	Mahin, Stephen A.	0793,	J0159,	J0219,
	E0002,	F0022,	F0032,		J0220		
	J0042			Makita, Atsuhiko	J0202		
Kuroiwa, S.	E0002			Makuta, Hiroshi	J0126,	J0177	
Kurose, Yukinobu	0479			Maley, Richard P.	0145,	0578	
Kusakabe, takaaki	0713,	J0090,	J0092,	Malvar, L. Javier	0498		
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Kusano, Kaoru	H0033			Maragakis, Emmanuel A.	J0086,	J0111,	J0120,
Kutara, Katsuyuki	0520				J0121,	J0162,	J0167,
Kuwabara, Tetsuro	0554,	0638,	0660,		J0171,	J0203,	J0209
	0683				0111,	0195,	0246,
Kyokuno, Wataru	F0022			Marcuson III, William F.	0289,	0331,	0357
					J0099,	J0221	
				Maroney, Brian H.	0019,	0108,	0123,
				Marshall, Richard D.	0163,	0167,	0183,
					0467,	0481,	0572,
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Ladd, Richard S.	0334			Maruyama, Tadaaki	J0132,	J0206	
Lagorio, Henry J.	0767,	0779		Mashimo, Tadao	F0018		
Lander, James F.	0243,	0424,	0463,	Masri, Sami F.	J0027,	J0115,	J0139,
	0489,	0544,	0627,		J0156,	J0174	
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Larsen, T.	0740			Matsuda, Hiroyuki	H0012		
Lea, George K.	0058			Matsuda, Takashi	J0229		
Lea, Patrick A.	0255			Matsuda, Tetsuo	0510,	0561,	0742,
Ledbetter, Richard H.	0689,	H0016,	H0030	Matsumoto, Hideo	0773,	H0017,	H0023
Lee, Charles E.	0004,	0032			0470		
Lee, G.M.	F0037			Matsumoto, Hideteru	0296,	0369,	0420,
Lee, L.H.N.	0328			Matsumoto, Norihisa	0454,	0500,	0507,
Letter, James	0043,	0068			0533,	0580,	0616,
Levine, M.P.	J0027				0667,	0685,	0728,
Lew, Franklin	C0088				0762		
Lew, H.S.	0051,	0070,	0126,	Matsumura, Akira	0720		
	0654,	0693,	0705,	Matsumura, George	0505		
	D0006,	D0030,	J0023,	Matsunaga, Yasuo	E0015,	H0031	
	J0036,	J0084,	J0116,	Matsuo, Osamu	0450,	0562,	0602,
	J0217				0637,	0690,	0754,
Lew, Tingley K.	0270,	0486,	0540,		H0012,		
	0745,	0755		Matsushima, Yutaka	0066,	0297	
Leyendecker, Edgar V.	0051,	0275,	0388,	Matsutomi, Hideo	I0007		
	0464,	0585,	0603,	Matsuura, Yasuo	J0226		
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Liska, J.A.	0090						
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Mayes, Ronald L.	0294,	0339,	C0013,	Murakami, M.	C0058,	C0060,	C0095
	J0082			Murakami, Misato	0444,	0458,	0509,
Mays, J.R.	0587				C0047		
McConnell, Richard D.	0150,	C0029		Murakoshi, Jun	J0114,	J0161,	J0204
McDonald, James R.	0255,	0749		Murata, Yoji	0025		
McDonough, Jr., George F.	0305			Murota, Tatsuo	0119,	0136,	0138,
McGogney, Charles H.	J0211				0166,	0184,	0238,
McGuire, Robin K.	0209,	0248			0304,	0345,	0362,
McLean, F.G.	0449				0380,	0399,	0472,
McNamara, John F.	0120				0527,	0574,	0593,
Meehan, John F.	0153,	0259,	0315		0600,	0604,	0614,
Mehta, Kishor C.	0610,	0680			0635,	0646,	0692,
Mena, Enrique	0605				0700,	0708,	0733,
Merritt, J.L.	F0005				0743,	0750,	C0016,
Merritt, Ronald G.	0116				C0040,	C0049,	C0074,
Mertz, Dennis R.	J0205				C0077,	D0016	
Meta, Toshihiro	H0029,	J0210		Murphy, Leonard M.	0023		
Meyer, C.	D0022			Murray, Robert C.	0749,	E0011,	E0012
Meyers, Herbert	0627,	0697,	0781	Mutsuyoshi, Hiroshi	J0231		
Midorikawa, Mitsumasa	0431,	0465,	0523,				
	0551,	0600,	0642,				
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	0556			Nagai, Akira	0756		
Mikami, Naoya	J0114			Nagamachi, Shunji	H0032		
Miki, Chitoshi	0520			Nagamori, Mineo	0046		
Miki, Hiroshi	0531,	0768		Nagao, Mitsuru	0098		
Mikoshihara, Tadashi	0783			Nagaoka, Masatoshi	0555,	0591,	0668
Miller, Martin C.	0409			Nagasaka, H.	E0002		
Minami, Ken-ichiro	C0060,	D0021		Nagase, Hideo	H0019		
Minami, T.	0504,	0592,	0653,	Nagashima, Hiroyuki	0766		
Minosaku, Koichi	J0014,	J0052,	J0138,	Naito, Gen-ichi	0468,	0557	
	J0204			Naito, Keikichi	0279,	0378,	0436,
	0224,	0261,	0286,		0558,	0576	
Minowa, Chikahiro	0768			Nakagami, Yoichi	0467,	0611	
	0256,	0332,	0333,	Nakahara, Mitsuo	0050,	0138	
Mitsule, Yasuo	0364,	0386		Nakajima, Hideo	H0011		
	F0014			Nakajima, Hiraku	J0225		
Miwa, M.	J0109			Nakajima, Hiroyuki	J0010,	J0019	
Miyahara, Kunihiro	D0021			Nakajima, Takeo	0412,	0419,	0473
Miyahara, H.	J0014			Nakajima, Yutaka	H0027		
Miyata, Toshitaka	J0018			Nakamura, Ippei	J0226		
Miyauchi, Hiroyoshi	0101			Nakamura, S.	J0210		
Miyawaki, Katsumi	0441			Nakamura, Takeo	J0182		
Mizuguchi, Mamoru	0640,	0791		Nakanishi, Yasumasa	J0163		
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Mizutani, Y.	D0021			Nakano, Kiyoshi	0095,	0117,	0119,
Mizutori, K.	C0052,	D0027,	J0159,		0127,	0136,	0226,
Moehle, Jack P.	J0219,	J0220			0227,	0234,	0283,
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Mohr, M.	0430			Nakano, Masahiro	F0013,	H0014	
Morgan, B.J.	J0136			Nakano, Osamu	J0186		
Mori, Hiroki	J0072,	J0228		Nakashima, Masayoshi	0477,	0518	
Morihama, Kazumasa	H0022			Nakata, Shinsuke	0161,	0393,	0428,
Morimoto, Iwao	D0021				0429,	0448,	0479,
Morimoto, T.	C0075				0640,	0665,	0718,
Morino, S.	0651				0760,	0785,	0786,
Morishita, Tadashi	C0077				0787,	0788,	C0034,
Morita, K.	0472				C0035,	C0057,	C0072,
Morita, Koji	0317				C0080		
Mork, P.N.	0636			Nakatani, Shoichi	J0215,	0617,	0669
Morohoshi, Toshikazu	0341			Nakayama, Shigeo	0225		
Morony, R.J.	J0140			Nakazawa, Kazuto	0264,	0267,	0307
Motomura, Shun-ichi	J0132			Namikawa, Kenji	J0194		
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Narita, Nobuyuki	0021,	0052,	0061,	Oh-oka, Hiroshi	0291,	0446	
	0064,	0081,	0104,	Ohashi, Kenji	J0223		
	0140,	0168,	0182,	Ohashi, Masamitsu	0216,	0219,	0226,
	0207,	0236,	0250,		0249,	0288,	0299,
	0293,	0348,	0383,		0342		
	0397,	0414,	0421,	Ohashi, Yuji	0297,	0709,	0770
	0438,	0456,	0458,	Ohkawa, Izuru	0446,	0565	
	0480,	0525,	0571,	Ohkawa, Seiji	J0102		
	0611,	0644,	0677,	Ohkoshi, T.	C0082		
	0679			Ohkubo, M.	C0058,	C0059,	C0089
Narumi, Naonobu	H0013			Ohkubo, Masahiko	0616,	0667,	0728,
Nash, John F.	0174				0762		
Nazmy, Aly S.	J0051,	J0064,	J0113	Ohkubo, Tadayoshi	0018,	0021,	0052,
Nelson, Thomas A.	E0012				0053,	0061,	0064,
Nemoto, Shigeru	0079				0077,	0081,	0103,
Nickell, J.S.	H0030				0121,	0132,	0140,
Nicoletti, Joseph P.	0505				0156,	0168,	0182,
Nigbor, Robert L.	J0180				0236,	0244,	0250,
Nilno, Hiroshi	0750				0276,	0299,	0316,
Nilro, Tadashi	E0002,	F0022			0350,	0383,	0397,
Niiyama, Makoto	J0196				0403		
Nisar, A.	J0172			Ohkuma, Takeshi	0527		
Nishijima, Akira	J0146			Ohno, Kazuaki	0507		
Nishikawa, Kazuhiro	J0204			Ohno, Sohei	J0061		
Nishimura, Masao	0683			Ohnuma, Masaaki	C0023		
Nishio, Nobuaki	F0021			Ohsaka, Kenji	J0177		
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Nishiyama, Isao	0465,	0512,	0523,		0031,	0039,	0202
	0551,	0593,	0600,	Ohshima, Kazuya	0509,	0541,	J0002,
	0642,	0655,	C0074,		J0013,	J0079,	J0190
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Nobari, F.S.	J0165			Ohta, M.	0515		
Noda, Mikio	J0069			Ohta, Masataka	C0095		
Noda, Setsuo	0091,	0159,	0198,	Ohta, T.	0211		
	0213,	0301,	0325,	Ohta, Yutaka	0215,	0224,	0229,
	0329,	0352,	0360,	Ohtani, Keiichi	0261,	0285,	0327,
	0407,	0409,	0442,		0354,	0401,	0455,
	0484,	0492,	0539,		0469,	0502,	0531,
	0589,	0606,	0623,		0577,	0636,	0647,
	0649,	0688,	0775,		0664,	0695,	0730,
	H0010				0768,	E0004	
Noji, T.	C0061,	C0062		Ohtani, S.	C0058,	C0066,	D0014,
Noland, James L.	0599,	0634,	0674,		D0035,	D0043	
	0707,	0719,	0789,	Ohtsuka, Kazuyuki	0277		
	C0044			Ohtsuka, Michio	0247,	0280	
Nomura, Naoshige	J0208			Ohwada, Y.	D0044		
Norman, Charles D.	0193			Ohya, Satoru	H0004		
Norris, Gary	0501,	J0086,	J0203	Ohyagi, Norio	0570,	0768	
Norton, William E.	0491			O-ishi, Tsuguro	J0123		
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Novomestky, F.	0326			Okada, Hisashi	0345,	0362,	0380,
Nowak, Andrzej S.	J0066,	J0110			0399,	0527,	0574,
Nutt, Richard V.	C0013				0635,	0646,	0750
Nyman, Douglas J.	F0003				0629,	I0021	
				Okada, Masami	0563,	0720,	C0058,
				Okada, Tsuneo	C0059,	C0060,	C0085,
					C0095,	D0005,	D0023,
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O'Connor, Dan	J0162			Okahara, Michio	0156,	0194,	0256,
O'Donnell, Keith O.	0092,	0152			0332,	0617,	0669,
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Obinata, Naomi	0500,	0554,	0584,		J0199,	J0215	
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Sawada, Kenkichi	0039,	0057,	0074,		0332,	0333,	0364,
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Scalzi, John B.	0162,	0187,	0269,	Short, Stephen A.	E0011,	E0012	
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Scanlan, Robert H.	0165,	0252,	0379,	Sigmund, Vladimir	0568		
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	J0195			Singh, Shri Krishna	0605		
Scawthorn, Charles	0519,	0740		Smith, Charles E.	0687,	0714,	0757
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Schamber, Robert A.	J0108			Smith, Robert J.	0453,	0534,	0581,
Scheffey, Charles F.	0006,	0027,	0054,		0620		
	0063,	0294		Snyder, Gary M.	F0035		
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School, Roger E.	C0051				0107,	0135,	0172
Schultz, Donald M.	0200			Soong, T.T.	0738,	0763	
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Seki, M.	C0068			Stacy, S.T.	H0016		
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Sekiya, Tomihiko	F0031			Stepp, J.C.	0065		
Seko, Ikuji	0683			Stone, William C.	0585,	0603,	0654,
Selna, Lawrence G.	0361,	0498,	J0025,		0772,	J0084,	J0116
	J0058,	J0118		Stroh, Steven L.	J0062,	J0155	
Senoo, Katsumi	0500,	0554		Stuart, Richard J.	0201		
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Shao, Lawrence C.	0201			Suda, Ken	0107,	0135	
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