NIST Special Publication 835

List of Publications 1969 – 1991

Panel on Wind and Seismic Effects

Panel on Wind and Seismic Effects

of

U.S.-Japan Cooperative Program in Natural Resources

United States Department of Commerce
Technology Administration
National Institute of Standards and Technology

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- Law Enforcement Standards
- Electricity
- Semiconductor Electronics
- Electromagnetic Fields[1]
- Electromagnetic Technology[1]

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- Inorganic Analytical Research
- Organic Analytical Research
- Process Measurements
- Surface and Microanalysis Science
- Thermophysics[2]

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- Atomic Physics
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- Quantum Metrology
- Ionizing Radiation
- Time and Frequency[1]
- Quantum Physics[1]

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- Automated Production Technology
- Robot Systems
- Factory Automation
- Fabrication Technology

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- Materials Reliability[1]
- Polymers
- Metallurgy
- Reactor Radiation

Building and Fire Research Laboratory
- Structures
- Building Materials
- Building Environment
- Fire Science and Engineering
- Fire Measurement and Research

Computer Systems Laboratory
- Information Systems Engineering
- Systems and Software Technology
- Computer Security
- Systems and Network Architecture
- Advanced Systems

Computing and Applied Mathematics Laboratory
- Applied and Computational Mathematics[2]
- Statistical Engineering[2]
- Scientific Computing Environments[2]
- Computer Services[2]
- Computer Systems and Communications[2]
- Information Systems

[1] At Boulder, CO 80303.
[2] Some elements at Boulder, CO 80303.

NIST Special Publication 835

List of Publications 1969 – 1991

Panel on Wind and Seismic Effects

Ken-ichi Tokida, Japan and Noel J. Raufaste, NIST, Editors

Building and Fire Research Laboratory
National Institute of Standards
and Technology
Gaithersburg, MD 20899

Japan Ministry of Construction
Public Works Research Institute
Tsukuba, Japan

April 1992

U.S. Department of Commerce
Barbara Hackman Franklin, Secretary

Technology Administration
Robert M. White, Under Secretary for Technology

National Institute of Standards and Technology
John W. Lyons, Director

LIST OF PUBLICATIONS 1969 - 1991

PANEL ON WIND AND SEISMIC EFFECTS

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.

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

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

CONTENTS

BACKGROUND

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 specialities.

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

USING THIS PUBLICATION

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 Hirosawa, 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

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)

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)

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, 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.

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

PUBLISHED REPORTS INDEX of JOINT PANEL MEETINGS

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, Yorihiko 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
Yorihiko Ohsaki, Toneo Endo : BRI

0031, 2, B
"On the Present Situation of Practical Planning and Zoning to Prevent the Earthquake Disaster" in Japan
Yorihiko 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
Yorihiko 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 Hirosawa, Shin Okamoto, Toneo 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-Astrodynamics 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 Hirosawa, 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. Borcherdt : 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

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Akira Suwa, Masaji Ichikawa : MRI

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Satoshi Hayashi, Hajime Tsuchida, Tatsuo Uwabe : PHRI

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Makoto Watabe, Yoshikazu Kitagawa : BRI

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Kazuya Yamamura : PWRI

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L.O. Anderson, J.A. Liska : Forest Products Laboratory, Department of Agriculture

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Satoshi Hayashi, Hajime Tsuchida, Setsuo Noda : PHRI

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Keith O. O'Donnell : CORPS

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Jimmy P. Balsara : WES

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William J. Werner : HUD

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Kiyoshi Nakano, Masaya Hirosawa : BRI

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Eiichi Kuribayashi : PWRI
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0097, 5, A,B
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Mitsuru Nagao : PWRI

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Tetsuo Santo : BRI

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Eiichi Kuribayashi : PWRI

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Naokazu Koiwai, Katsumi Miyawaki : Yokohama City

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Richard N. Wright, Samuel Kramer : Institute for Applied Technology, NBS

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Tadayoshi Ohkubo : PWRI
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Shin Okamoto : BRI

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Nobuyuki Narita, Koichi Yokoyama : PWRI

0105, 6, A
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R. Cecil Gentry : Environmental Research Laboratories, NOAA

0106, 6, A
Extreme Winds in the United States
Arnold R. Hull, Patrick E. Hughes : Environmental Data Service, NOAA

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Wind Tunnel Experiments for Studying a Local Wind
Ken Suda, Seiji Soma, Kiyohide Takeuchi : MRI

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A Study of Wind Pressures on a Single-Family Dwelling in Model and Full Scale
Richard D. Marshall : Center for Building Technology, NBS

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William B. Joyner, Albert T.F. Chen, Patrick C. Doherty : USGS

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William F. Marcuson III : WES

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Kazuya Yamamura, Yasuyuki Koga : PWRI

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George E. Ericksen : USGS

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Eiichi Kuribayashi : PWRI
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Roger D. Borcherdt, James F. Gibbs : USGS

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Kiyoshi Nakano, Masaya Hirosawa : BRI

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Stanley K. Takahashi, Warren A. Shaw : NCEL

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Kiyoshi Nakano, Masaya Hirosawa, Tatsuo Murota : BRI

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Charles G. Culver : Center for Building Technology, NBS

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Emil Simiu, Richard D. Marshall : Center for Building Technology, NBS

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James D. Cooper, R. Richard Robinson : FHWA
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Seiichi Inaba : NRCDP

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H.S. Lew, Charles G. Culver : Center for Building Technology, NBS

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Kiyoshi Nakano, Makoto Watabe : BRI

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William J. Werner : HUD

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Earthquake Engineering Research Supported by the National Science Foundation
Charles C. Thiel : Earthquake Engineering Research Applications Directorate (RANN), NSF

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Akira Suwa : MRI

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S.G. Fattal : Center for Building Technology, NBS

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Arnold R. Hull : Environmental Data Service, NOAA

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Seiji Soma, Ken Suda : MRI

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Tatsuo Murota, Kiyoshi Nakano : BRI

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Wind Engineering Research Program Supported by the National Science Foundation
Michael P. Gaus : NSF

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James D. Cooper : FHWA

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Tadayoshi Ohkubo, Nobuyuki Narita, Koichi Yokoyama : PWRI

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Richard H. Gade, Walter Podolny, Jr., Harold R. Bosch : FHWA

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Sadaiku Hattori, Yoshikazu Kitagawa, Tetsuo Santo : BRI

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Tsutomu Terashima, Tetsuo Santo : BRI

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Eiichi Kuribayashi : PWRI
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Richard P. Maley : USGS

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Mark Fintel : Portland Cement Association

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Keith O. O'Donnell : CORPS

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John F. Meehan : Office of Architecture and Construction, Department of General Services, State of California

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G. Robert Fuller : HUD

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Seiichi Inaba : NRCDP

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Kenji Kawakami, Tadayoshi Ohkubo, Keiichi Komada, Michio Okahara : PWRI

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Kenji Kawakami, Eiichi Kuribayashi, Yutaka Iida : PWRI
Toshio Iwasaki : BRI

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On Specifications for Earthquake-Resistant Design of the Honshu-Shikoku Bridges (JSCE 1974)
Ishio Kawasaki : Honshu-Shikoku Bridge Authority
Eiichi Kuribayashi : PWRI

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Satoshi Hayashi, Hajime Tsuchida, Setsuo Noda : PHRI

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Eiichi Kuribayashi : PWRI
Hajime Tsuchida : PHRI

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Makoto Watabe, Masaya Hirosawa, Shinsuke Nakata : BRI

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Charles C. Thiel, John B. Scalzi : Earthquake Engineering Research Applications Directorate (RANN), NSF

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High Wind Study in the Philippines
Noel J. Raufaste, Jr., Richard D. Marshall : Center for Building Technology, NBS

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Makoto Watabe, Hideo Tokuhiro, Masakazu Shinozuka : BRI

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Richard H. Gade : FHWA
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Tatsuo Murota : BRI

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Richard D. Marshall, Robert A. Crist : NBS

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Tadayoshi Ohkubo, Nobuyuki Narita : PWRI

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Emil Simiu : Center for Building Technology, NBS

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Billy Bohannan : Forest Products Laboratory

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Wind Loads on Low-Rise Buildings
Noel J. Raufaste, Jr. : NBS

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Characteristics of the High Wind at Hachijojima Island on the Occasion of Typhoon No. 7513
Seiji Soma : MRI

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High Winds in the United States, 1975
Arnold R. Hull, Thomas D. Potter, Nathaniel B. Guttman : Environmental Data Service, NOAA

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Mean Speed Profiles of Hurricane Winds
Emil Simiu : Center for Building Technology, NBS
Virendra C. Patel : University of Iowa
John F. Nash : Sybucon, Inc.

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R.B. Matthiesen : USGS

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Toshio Iwasaki, Susumu Wakabayashi, Fumio Tatsuoka : PWRI

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Relationship between Earthquake Damage of Existing Wooden Houses and Seismic Intensities
Eiichi Kuribayashi, Tadayuki Tazaki, Takayuki Hadate : PWRI

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William B. Joyner : USGS

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Tadayoshi Ohkubo, Nobuyuki Narita, Koichi Yokoyama : PWRI

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Richard D. Marshall : Center for Building Technology, NBS

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Tatsuo Murota : BRI

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J. Penzien, W.G. Godden, M.C. Chen, D. Williams, Kazuhiko Kawashima : University of California

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Masakazu Ozaki, Yuji Ishiyama : BRI

0187, 8, B
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John B. Scalzi : NSF

0188, 8, A,B
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Seiichi Inaba : NRCDP

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Kenkichi Sawada : PWRI

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Seiichi Inaba, Shigeo Kinoshita : NRCDP

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Charles G. Culver : NBS

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Kaoru Ichihara, Eiichi Kuribayashi, Tadayuki Tazaki : PWRI

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Charles D. Norman, Roger D. Crowson, Jimmy P. Balsara : Weapons Effects Laboratory, WES

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Tetsuo Kunihiro, Kaname Yahagi, Michio Okahara : PWRI

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William F. Marcuson III, S.S. Cooper, M.A. Bieganousky : WES

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Mark Fintel : Portland Cement Association

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Mark Fintel, Donald M. Schultz : Portland Cement Association

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Lawrence C. Shao, Richard J. Stuart, Charles H. Hofmayer : NRC

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Makoto Watabe, Yorihiko Ohsaki : BRI

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James F. Costello : NRC

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Structural Damage to Bridges Resulting from the Guatemala Earthquake
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Thomas D. Potter, Michael J. Changery : Environmental Data Service, NOAA

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Akira Suwa : MRI

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Robin K. McGuire : USGS

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Akira Suwa, Norio Yamakawa, Tatsuo Iinuma : MRI

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Fumio Yamamizu, Hiroshi Takahashi : NRCDP
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Hiroshi Sato : GSI
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Tatsuo Uwabe, Setsuo Noda, Eiichi Kurata, Satoshi Hayashi : PHRI

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A. Gerald Brady : USGS

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Keiichi Ohtani, Shigeo Kinoshita : NRCDP

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Yukitake Shioi : BRI
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Masamitsu Ohashi, Toshio Iwasaki, Fumio Tatsuoka : PWRI

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Eiichi Kuribayashi, Kazuhiko Kawashima : PWRI

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Shigeo Nakayama, Osamu Kiyomiya, Hajime Tsuchida : PHRI

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Kiyoshi Nakano : BRI
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Kiyoshi Nakano, Yuji Ishiyama, Yoshitsugu Aoki : BRI

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W.D. Iwan, N.C. Gates : California Institute of Technology

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Keiichi Ohtani : NRCDP

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Roger L. Tuomi : Forest Products Laboratory

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Kaoru Ichihara, Eiichi Kuribayashi, Tadayuki Tazaki, Takayuki Hadate : PWRI

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Relationship between Modified Mercalli Intensity and Wood Frame Dwelling Earthquake Insurance
Karl V. Steinbrugge : Insurance Service Office
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Anatole Longinow, Ernest Bergmann : IIT Research Institute
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Kiyoshi Nakano, Masaya Hirosawa, Shin Okamoto : BRI

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Noel J. Raufaste, Jr. : NBS

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Tadayoshi Ohkubo, Nobuyuki Narita : PWRI

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Duane A. Haugen : Wave Propagation Laboratory, NOAA

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Tatsuo Murota, Yuji Ishiyama : BRI
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William H. Hooke : Wave Propagation Laboratory, NOAA

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Extreme Wind Data Base Development at the National Climatic Center
Michael J. Changery : National Climatic Center, NOAA

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A.M. Converse, R.B. Matthiesen : USGS

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Susumu Iai, Eiichi Kurata, Hajime Tsuchida, Satoshi Hayashi : PHRI

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Some Recent Developments in National and International Seismic Data Exchange Activities
James F. Lander : World Data Center A for Solid Earth Geophysics, NOAA

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Report on the International Workshop on Strong-Motion Earthquake Instrument Arrays May 2-5, 1978, at Hawaii
Tadayoshi Ohkubo : PWRI
Hajime Tsuchida : PHRI

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Makoto Watabe, Yoshikazu Kitagawa : BRI

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Determination of Design Earthquake for the Dynamic Analysis of the Fort Peck Dam
William F. Marcuson III, Ellis L. Krinitzsky : Soils and Pavements Laboratory, WES

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Minoru Tajima, Hiroshi Sato : GSI
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Robin K. McGuire : USGS
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Toshio Iwasaki, Ken-ichi Tokida : PWRI

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A Practical Procedure for Assessing Earthquake-Induced Liquefaction of Sandy Deposits
Masamitsu Ohashi, Toshio Iwasaki, Fumio Tatsuoka, Ken-ichi Tokida : PWRI

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Wind Resistant Design of Cable-Stayed Bridges in Japan
Tadayoshi Ohkubo, Nobuyuki Narita, Masataka Katsuragi : PWRI

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Aerodynamic Stability of Proposed Ohio River Cable-Stayed Bridge
Loyd R. Cayes : FHWA

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Some Aerodynamic Considerations in the Design of the Ruck-A-Chucky Bridge
Robert H. Scanlan : Princeton University

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A Summary of Wind-Tunnel Test Results for the Luling, Louisiana, Cable-Stayed Bridge
Harold R. Bosch : FHWA

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A Technique for Measuring Fluctuating Wind Loads on a Tall-Building Model Irrespective of Model Motion
Timothy A. Reinhold : NBS

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A Study of Building Damage Caused by Wind
James R. McDonald, Patrick A. Lea : Texas Tech University

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Yukitake Shioi, Toshio Furuya, Michio Okahara, Yasuo Mitsuie : PWRI

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Roland L. Sharpe : Applied Technology Council

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James Robert Harris : NBS

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John F. Meehan : Office of the State Architect, State of California

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Masaya Hirosawa, Yuji Ishiyama, Tetsuro Goto : BRI

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Keiichi Ohtani, Chikahiro Minowa : NRCDP

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Makoto Watabe, Toshiyuki Kubota, Akio Baba, Toshibumi Fukuta, Hiroshi Ito : BRI

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Seismic Evaluation of Existing Multistory Residential Buildings
G. Robert Fuller : HUD

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Kazuto Nakazawa, Toshio Iwasaki, Kazuhiko Kawashima : PWRI
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James K. Wight, Robert D. Hanson : University of Michigan

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An Evaluation Study on the Distribution Characteristics of Property Losses Caused by Historical Earthquakes
Eiichi Kuribayashi, Tadayuki Tazaki : PWRI

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Present Status and Problems on Countermeasures to Earthquake Disasters with Emphasis on Disaster-Resistivities of Cities and their Lifelines
Kazuto Nakazawa, Eiichi Kuribayashi : PWRI

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The Investigation on the Rescue and Rehabilitation of the Izu-Ohshima Kinkai Earthquake of 1978
Eiichi Kuribayashi, Tadayuki Tazaki, Takayuki Hadate : PWRI

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Charles C. Thiel, William A. Anderson, Michael P. Gaus, William Hakala, Frederick Krimgold, Shih Chi Liu, John B. Scalzi : NSF

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Tingley K. Lew, Stanley K. Takahashi, C.V. Chelapati : NCEL

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A. H-S. Ang : University of Illinois at Urbana-Champaign

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Mark G. Spaeth : National Weather Service, NOAA

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Timothy A. Reinhold : NBS

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Hiroshi Hashimoto : PWRI

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Chester P. Jelesnianski : Techniques Development Laboratory, Systems Development Office, National Weather Service, NOAA
Celso S. Barrientos : Center for Environmental Assessment Services, Environmental Data and Information Service, NOAA

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Riley M. Chung, Felix Y. Yokel, Erik D. Anderson : Center for Building Technology, NBS

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Teoman Ariman : University of Tulsa

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John F. Fleming : University of Pittsburgh

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Yasushi Sasaki, Yasuyuki Koga : PWRI

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Norihisa Matsumoto, Mitsuo Toyoda, Minori Shiga : PWRI

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Nobuyuki Narita, Hideya Asanuma, Jiro Fukui, Yoji Yamamoto : PWRI

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Christopher Rojahn : Applied Technology Council
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Eddie N. Bernard : Pacific Marine Environmental laboratory, NOAA

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James F. Lander : National Geophysical and Solar-Terrestrial Data Center

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Yoshimi Goda : PHRI
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Celso S. Barrientos : Center for Environmental Assessment Services, Environmental Data and Information Service, NOAA

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James K. Wight : University of Michigan

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Shin Okamoto, Yoshikazu Kitagawa, Shinsuke Nakata, Manabu Yoshimura, Takashi Kaminosono : BRI

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Shin Okamoto, Yoshikazu Kitagawa, Shinsuke Nakata, Manabu Yoshimura, Takashi kaminosono : BRI

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B.J. Morgan, Hisahiro Hiraishi, W.G. Corley : Construction Technology Laboratories, Portland Cement Association

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Nobuyuki Narita, Kunio Yamamoto, Hiroshi Sato : PWRI

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Kaname Takahara : Oka-Sekkei Co., Ltd.
Tomoaki Akiyama : Tokyo Soil Research Co., Ltd.

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Robert H. Scanlan : Princeton University

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James F. Lander, Patricia A. Lockridge : National Geophysical Data Center, NOAA

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

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C.V. Chelapati : California State University
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P.C. Chen : Interpacific Technology, Inc.

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Tsuneo Okada : Institute of Industrial Science, University of Tokyo
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Emil Simiu, Erik M. Hendrickson : Center for Building Technology, NBS

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Celso S. Barrientos, F.G. Everdale, R.P. Stumpf : Assessment and Information Services Center, National Environmental Satellite, Data and Information Service, NOAA

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Robert L. Dewey, Karl M. Dise : BUREC

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H. Lee Butler, Thomas A. Hardy : Coastal Engineering Research Center, WES

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Robert D. Hanson : University of Michigan

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Edgar V. Leyendecker, William C. Stone, Felix Y. Yokel : NBS

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Masaya Hirosawa, Tatsuo Murota : BRI

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Hajime Tsuchida, Setsuo Noda : PHRI

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Mete A. Sozen : University of Illinois

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Harold R. Bosch : FHWA

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Kishor C. Mehta : Institute for Disaster Research, Texas Tech University

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Nobuyuki Narita, Koichi Yokoyama, Hiroshi Sato, Yoichi Nakagami : PWRI

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Robert H. Scanlan : Johns Hopkins University

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A. Gerald Brady : USGS

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Frank K. Chang, R.F. Ballard, Jr., Arley Gus Franklin : WES

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Yoshihiro Sugimura, Tsutomu Hirade : BRI

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Joseph V. Tyrrell : NAVFAC

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Katsutoshi Tanimoto, Hiroichi Tsuruya : PHRI

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Herbert Meyers, Patricia A. Lockridge, James F. Lander : National Geophysical Data Center, NOAA

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Shin-ichi Iwasaki, Hiroshi Takahashi : NRCDP

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Masami Okada, Masaji Ichikawa : MRI

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Takaaki Uda, Atsushi Omata, Yasuhisa Yokoyama : PWRI

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James L. Noland : Atkinson-Noland & Associates

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Hisashi Okada, Tatsuo Murota : BRI

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Fazl Ehsan : John Hopkins University
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Nobuyuki Narita, Koichi Yokoyama, Hiroshi Sato : PWRI

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G. Robert Fuller : HUD

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Tatsuo Murota, Hisashi Okada : BRI

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Richard W. Krimm : FEMA

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Mary Ellen Hynes-Griffin, Arley Gus Franklin : WES

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Yasuyuki Koga, Eiichi Taniguchi, Jun-ichi Koseki, Tadashi Morishita : PWRI

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Thomas L. Holzer, Michael J. Bennett : USGS
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Shoichi Saeki, Minoru Fujiwara, Koichi Minosaku, Jun Hikino : PWRI

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William C. Stone, Geraldine S. Cheok, H.S. Lew : NBS

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Hiroyuki Yamanouchi, Isao Nishiyama : BRI

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Walter W. Hays : USGS

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Masaya Hirosawa, Hisahiro Hiraishi, Masaki Fujisawa : BRI
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Robert Hall, Messrs Tommy Bevins, Stephen Wright : CORPS

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Yoshikazu Kitagawa, Masaya Hirosawa : BRI

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Yasushi Sasaki, Tetsuro Kuwabara, Seitaro Yoshimi : PWRI

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Jeremy Isenberg, Edward Richardson : Weidlinger Associates

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Douglas A. Foutch, Keith D. Hjelmstad : University of Illinois at Urbana-Champaign
Enrique Del Valle Calderon : Universidad Nacional Autonoma de Mexico

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A. Gerald Brady : USGS

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Celso S. Barrientos : Data and Information Service, NOAA

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Noel J. Raufaste, Jr., Richard N. Wright : Center for Building Technology, NBS

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Nobuyuki Narita : PWRI

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Kishor C. Mehta : Texas Tech University

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Yuji Ishiyama : Peru Office, JICA
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Michio Okahara, Shoji Takagi, Keiji Taguchi : PWRI

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T.T. Soong : State University of New York at Buffalo

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Maryann T. Phipps : H.J. Degenkolb & Associates
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Jeremy Isenberg : Weidlinger Associates
LeVal Lund : Los Angeles Department of Water and Power
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S.T. Algermissen, Walter W. Hays : USGS
Paul F. Krumpe : Office of Foreign Disaster Assistance, AID

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Yasuyuki Koga, Jun-ichi Koseki, Takao Shimazu, Osamu Matsuo : PWRI

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Tingley K. Lew : NCEL

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Charles E. Smith : Minerals Management Service

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Tadao Dohi, Takekazu Akagiri : GSI

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Yasushi Sasaki, Michio Okahara : PWRI

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Tsuneo Okada, Y. Ohwada, H. Kimura : University of Tokyo

D0045, D3
Earthquake Observation of the Fifth Building
Yutaka Yamazaki : BRI

TASK COMMITTEE "E" Ground Motion and Seismic Design Forces Program

E0001, E1
Some Engineering Aspects of Ground Motion Characteristics Clarified from PWRI Array Observation Records
Ken-ichi Tokida, Keiichi Tamura, Koh Aizawa : PWRI

E0002, E1
Study of an Assessment for Site Effects of Seismic Strong Motions
Eiichi Kuribayashi, T. Jiang, Tadashi Niiro, H. Nagasaka, S. Kuroiwa, Shozo Nishioka : Toyohashi University of Technology

E0003, E1
The Seismotectonic Basis for Earthquake Hazard Assessment in the United States
Paul C. Thenhaus : USGS

E0004, E1
History and Status of Strong-Motion Earthquake Measurement in Japan
Keiichi Ohtani : NIED

E0005, E1
Earthquake Hazard and Risk (Loss) Assessment Techniques in the United States - A Review -
S.T. Algermissen : USGS

E0006, E1
Seismic Hazard Assessment - States of Practice in Japan -
Hiroyuki Kameda : Urban Earthquake Hazard Research Center, Disaster Prevention Research Institute, Kyoto University

E0007, E1
Engineering Risk Assessment of Seismic Ground Motion and Ground Liquefaction
Ken-ichi Tokida, Keiichi Tamura, Koh Aizawa : PWRI

E0008, E1
Thematic Mapping for Hazards by the Geographical Survey Institute
Tadao Dohi, Masaharu Tsuzawa : GSI

E0009, E1
Seismic Hazard and Ground Motion Studies in Japan - A Study Perspective -
Tsuneo Katayama : Institute of Industrial Science, University of Tokyo

E0010, E1
Characterization of Earthquake Ground Motions and Design Earthquake Loading of Highway Bridges
Kazuhiko Kawashima : PWRI

E0011, E1
Seismic Design Criteria to Meet Probabilistic Performance Goals
James R. Hill, Robert C. Murray, Stephen A. Short : U.S. Department of Energy

E0012, E1
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

E0013, E1
Seismic Loading and Safety Evaluation for Building Code in Japan
Yoshikazu Kitagawa : BRI

E0014, E1
The Application of Earthquake Hazard Assessments to Building Codes in the United States
Edgar V. Leyendecker : USGS

E0015, E1
Japanese Experience with Seismic Design and Response of Port and Harbor Structures
Susumu Iai, Yasuo Matsunaga : PHRI

TASK COMMITTEE "F" Disaster Prevention Methods for Lifeline Systems

F0001, F2
Systems Aspects of Lifeline Engineering
Masanobu Shinozuka, M. Kitaura, F. Yamazaki : Columbia University

F0002, F2
Development of Model for Determining Differential Seismic Ground Motion
A. Zerva, A. H-S. Ang, Y.K. Wen : University of Illinois

F0003, F2
Wave Propagation Effects on Buried Pipelines
Douglas J. Nyman : NTS/Structural Mechanics Associates

F0004, F2
Behavior of Buried Pipelines under Large Ground Deformations in Earthquakes
Teoman Ariman : University of Tulsa

F0005, F2
Methods of Testing Buried Lifelines in the USA
J.L. Merritt : Merritt CASES, Inc.

F0006, F2
Seismic Performance of Telecommunications Structures and Equipment
Jeremy Isenberg : Weidlinger Associates

F0007, F2
Research and Development in Seismic Mitigation of Telecommunication Systems in CANADA
A. Tang : Northern CANADA Telecom Ltd.

F0008, F2
Earthquake Requirements for Telecommunications Equipment
J.W. Foss : Bell Communications Research, Inc.

F0009, F2
Experiments and Field Observations of Seismic Protection on Computer Facilities
I-Kwang Chang : International Business Machines Corporation

F0010, F2
Earthquake-Resistant Design of Underground Pipelines
Toshio Iwasaki : PWRI

F0011, F2
Finite Ground Strains Induced during Earthquake for Application to Seismic Design of Underground Pipelines
Kazuhiko Kawashima, Keiichi Tamura, Koh Aizawa : PWRI

F0012, F2
Liquefaction Damage and Analysis of Underground Telecommunications Facilities
Shiro Takada, T. Sawahashi : Kobe University

F0013, F2
Field Observations on Telecommunications Facilities
Masahiro Nakano, H. Uematsu : N.T.T.

F0014, F2
Seismic Performance of Telecommunication Network System
M. Miwa : N.T.T.

F0015, F2
Seismic Risk and Assessment of Lifeline Systems
Hiroyuki Kameda, Tadanobu Sato : Kyoto University

F0016, F2
Seismic Analysis of Lifeline Networks
Hideji Kawakami : Saitama University

F0017, F2
Aseismic Design of Telecommunications Equipment Based on Earthquake Observations of Buildings
Yuji Sato, Hisanobu Akagi : N.T.T.

F0018, F3
Damage of Gas Pipeline from Chiba Toho-Oki Earthquake
Tadao Mashimo : Tokyo Gas Co., Ltd.

F0019, F3
Seismic Damage, Design and Research Needs of Buried Water Lifelines
Leon Ru-Liang Wang : Old Dominion University

F0020, F3
Damage to Buried Lifelines due to Liquefaction - Induced Ground Displacement
Masanori Hamada : Tokai University

F0021, F3
Quantitative Relationship between Ground Conditions and Pipeline's Damage Susceptibility
Nobuaki Nishio : Tokyo Gas Co., Ltd.

F0022, F3
Malfunction Analysis of Roads and Streets during Earthquake in Japan
Eiichi Kuribayashi, Jiang Tong, Tadashi Niiro, Wataru Kyokuno : Toyohashi University of Technology

F0023, F3
Analysis on The Finite Ground Strains Induced during Earthquakes
Yasushi Sasaki, Keiichi Tamura, Koh Aizawa : PWRI

F0024, F3
Pipeline Field Experiment at Parkfield, CA
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

F0026, F3
Loading Test of Shield Tunnel Specimens Subjected to Alternative Axial Loading
Kazuhiko Kawashima, Hideki Sugita, Takashi Kano : PWRI

F0027, F3
Seismic Retrofitting of Bridge Columns for Enhanced Shear Strength and Flexural Ductility
M.J. Nigel Priestley : University of California

F0028, F3
Bridge Seismic Retrofit Program for California Highway System
James E. Roberts : CALTRANS

F0029, F3
Reliability and Risk Assessment of Lifeline Systems
Masanobu Shinozuka, Hiroyuki Kameda : Princeton University

F0030, F3
Earthquake Physical Damage and Functional Serviceability of Simplified Models of Lifeline Networks
Hideji Kawakami : Saitama University

F0031, F3
Identification and Upgrading of Critical Components for Improving Seismic Reliability of Large Lifeline Networks
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
Aseismic Design for Telephone Tunnel
Koji Yagi, Tadanobu Suzuki, Hiroaki Hattori : N.T.T.

F0034, F3
Analytical Study on Optimum Design for Base Isolation System
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. Chrostwski, G.M. Lee : Dames & Moore

F0038, F3
Management Strategies and Public Education Resources for Lifeline Systems during Earthquakes
Peter R. Lucarelli : Los Angels City Fire Department

F0039, F3
An Expert System to Aid Restoration Works against Seismic Damaged Telecommunication Buried Pipelines
Shiro Takada : Kobe University

TASK COMMITTEE "H" Soil Behavior and Stability During Earthquakes

H0001, H1
SPT for Liquefaction Resistance Evaluations - State-of-the-Art and Future Requirements
Jeffrey A. Farrar : Engineering and Research Center, BUREC

H0002, H1
Fundamental Study on the SPT
Mamoru Fuyuki, Kazuma Uto : Tokai University

H0003, H1
In Situ Test for Assessing Liquefaction Potential Using Vibratory Cone Penetrometer
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
Liquefaction Studies in the Imperial Valley, California
T. Leslie Youd : Brigham Young University

H0007, H1
Provisions of Soil Liquefaction Specified in Current Japanese Design Codes
Toshio Iwasaki : PWRI

H0008, H1
Design of Viaduct Considering the Effects of Soil Liquefaction
Kozo Higuchi, Mitsuru Goto : Honshu-Shikoku Bridge Authority

H0009, H2
Remedial Treatments of Liquefiable Soils Currently Used in Japan
Yasushi Sasaki : PWRI

H0010, H2
Basic Consideration for Designing the Area of the Ground Compaction as a Remedial Measure against Liquefaction
Susumu Iai, Setsuo Noda, Hajime Tsuchida : PHRI

H0011, H2
Damages of Dikes by the 1983 Nihonkai Chubu Earthquake and their Remedial Works
Kazuya Yamamura, Yasushi Sasaki, Hideo Nakajima, Masakazu Takahashi : Nihon University

H0012, H2
Experimental Study on the Deep Mixing Method as a Countermeasure against Liquefaction
Yasuyuki Koga, Osamu Matsuo, Jun-ichi Koseki, Minoru Enokida, Takashi Matsuda, Kichio Suzuki : PWRI

H0013, H2
An Application of Dynamic Compaction to a Coal Yard in Japan
Susumu Yasuda, Hisashi Tsuchiya, Naonobu Narumi : Kyushu Institute of Technology

H0014, H2
An Experimental Study on the Manhole Stabilizing Techniques against Liquefaction
Masahiro Nakano, Yasushi Sasaki, Masaaki Yoshikawa, Hiroaki Hattori, Masanobu Arano : NTT Tsukuba Field Engineering Development Center

H0015, H3
Strategy for Remedial Treatment against Liquefiable Soil - A Proposal of Basic Concept -
Yasushi Sasaki : PWRI

H0016, H3
Dam on Liquefiable Foundation : Safety Assessment and Remediation
W.D.L. Finn, Richard H. Ledbetter, R.L. Fleming, Jr., A.E. Templeton, T.W. Forrest, S.T. Stacy : University of British Colombia

H0017, H3
Shake Table Tests on Lateral Ground Flow Induced by Soil Liquefaction
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

H0019, H3
A Simplified Procedure for the Analysis of the Permanent Ground Displacement
Susumu Yasuda, Hideo Nagase, Hiroyoshi Kiku, Yutaka Uchida : Kyushu Institute of Technology

H0020, H3
Effective Stress Analysis of a Sheet Pile Quay Wall
Susumu Iai, Tomohiro Kameoka : PHRI

H0021, H3
Pore Pressure and Residual Strain of Saturated Sand and Soft Clay Subjected to Cyclic Loading
Masayuki Hyodo, Kazuya Yasuhara : Yamaguchi University

H0022, H3
Development of Liquefaction Sensor
Susumu Yasuda, Iwao Morimoto, Yoshihisa Shimizu : Kyushu Institute of Technology

H0023, H3
Simplified Examination Method of the Stability of Bridges Considering the Effects of Soil Liquefaction
Ken-ichi Tokida, Jiro Fukui, Hideo Matsumoto : PWRI

H0024, H3
Seismic Design for Road Bridge Considering Soil Liquefaction
- Seismic Design Specifications of Road Bridge and its Design Example -
Katsuya Wada, Toru Terayama : Metropolitan Expressway Public Corporation

H0025, H3
Seismic Stability of Structures Buried in Liquefiable Sands against Uplift
Yasuyuki Koga, Jun-ichi Koseki : PWRI

H0026, H3
A Study on the Effects of Ground Displacement Conditions on Evaluating the Resistivity of Pipelines in the Liquefaction Areas
Eiichi Kodama, Shin-ichi Suzuki : Tokyo Gas Co., Ltd.

H0027, H3
Countermeasures against Liquefaction in Japan - Types and Features of the Methods -
Yukihisa Tanaka, Yutaka Nakajima, Hideo Tsuboi : Institute of Electric Power Industry

H0028, H3
Several Applications of Countermeasures against Liquefaction at Artificially Reclaimed Lands in Japan
Susumu Yasuda : Kyushu Institute of Technology

H0029, H3
Liquefaction Resistance Design of the Trans-Tokyo Bay Highway
Tomoji Hirukawa, Toshihiro Meta, Y. Kawase, Y. Mizutani, M. Ohta, Hisato Kato, S. Nakamura : Trans-Tokyo Bay Highway Corporation

H0030, H3
Liquefaction Induced Behavior and Remediation for Mormon Island Dam
Richard H. Ledbetter, W.D.L. Finn, J.S. Nickell, R.E. Wahl, Mary Ellen Hynes : WES

H0031, H3
Soil Improvement Area against Liquefaction
Susumu Iai, Yasuo Matsunaga : PHRI

H0032, H3
Analysis of Liquefaction Damages and Aseismatic Countermeasures for Conduits
Koji Yagi, Shunji Nagamachi : NTT Tsukuba Field Engineering Development Center

H0033, H3
Gentle-Slope Bank and Super Embankment Construction Project of the Sumida River
Kaoru Kusano : Institute of Civil Engineering, Tokyo Metropolitan Government

TASK COMMITTEE "I" Storm Surge and Tsunamis

I0001, I2
Decay of the Initial Crest of the 1960 Chilean Tsunami : Scattering of Tsunami Waves Caused by Sea Mounts and the Effects of Dispersion
Yoshinobu Tsuji : Earthquake Research Institute, University of Tokyo

I0002, I2
On Frequency Modulation Observed in Two PacTOP Deep Ocean Tsunami Records
Frank I. Gonzales : Pacific Marine Environmental Laboratory, NOAA

I0003, I2
On the Generation Mechanism of the Low Frequency T Phase due to Tsunamigenic Earthquakes
Shin-ichi Iwasaki : NIED

I0004, I2
Modeling Implication of the 1985 Chilean Tsunami
Gerald T. Heberstreit, M.S. Moustafa : Science Applications International Corporation

I0005, I2
Observation of Standing Edge Waves Trapped on the Shelf of Makurazaki Coast
Yoshinobu Tsuji, Takashi Yanuma : Earthquake Research Institute, University of Tokyo

I0006, I2
The Criteria for Identification of Tsunami Events Likely to Produce Far-Field Damage, A Data Application
Patricia A. Lockridge : National Geophysical Data Center, NOAA

I0007, I2
Impulsive Force of Timbers Drifted by Tsunamis
Hideo Matsutomi : Akita University

I0008, I2
Simulation Models of Timber and Oil Spread due to Tsunamis
Chiaki Goto : PHRI

I0009, I2
Stem Waves and Hexagonal Wave Pattern in Shallow Water
Sung B. Yoon, Philip L.-F. Liu : Cornell University

I0010, I2
Numerical Simulation and Experiment on Tsunami Run-Up
Shigeru Yamaki, Takaaki Uda : I.N.A. Civil Engineering Consultants Co., Ltd.

I0011, I2
Tsunami Propagation from a Finite Source
George Carrier : Harvard University

I0012, I2
Hydraulic and Numerical Experiments of Non-Linear Dispersive Waves in Two-Dimensional Wave Basin
Fumihiko Imamura, Nobuo Shuto : Tohoku University

I0013, I2
On Momentum Exchange of a Tsunami Bore at a Shoreline
Harry Yeh : University of Washington

I0014, I2
Least Squares Estimations of a Tsunami Source from Wave Records
Harold G. Loomis : University of Hawaii

I0015, I2
Numerical Simulation as a Means of Warning for Near-Field Tsunamis
Nobuo Shuto, Chiaki Goto, Fumihiko Imamura : Tohoku University

I0016, I2
Numerical and Hydraulic Modeling Flooding
Charles L. Mader : Joint Institute for Marine& Atmospheric Research, University of Hawaii

I0017, I2
Experiment on Two Dimensional Transformation of Non-Linear Long Waves Propagating on Slope
Takaaki Uda : PWRI

I0018, I2
Numerical Computation of the Tsunami Run-Up
Zygmunt Kowalik : Institute of Marine Science, University of Alaska

I0019, I2
Inundation and Tsunami Waves
George D. Curtis : Joint Institute for Marine& Atmospheric Research, University of Hawaii

I0020, I2
Urban Planning for Tsunami Hazards - Grays Harbor, Washington and Lima, Peru
Jane Preuss : Urban Regional Research

I0021, I2
Ocean Bottom Pressure Gauge for Tsunami Warning System in Japan
Masami Okada : MRI

I0022, I2
Automatic Estimations of Tsunami Risk Following a Distant Earthquake Using the Mantle Magnitude Mm.
Emile A. Okal, Jacques Talandier, Dominique Reymond : Northwestern University

I0023, I2
Real-Time Determination of Earthquake Source Parameters and its Application to Tsunami Warnings
Kenji Sakate : University of Michigan

I0024, I2
Assessment of Project THRUST : Past, Present, Future
Eddie N. Bernard : Pacific Marine Environmental Laboratory, NOAA

TASK COMMITTEE "J" Wind and Earthquake Engineering for Offshore and Coastal Facilities

J0001, J1
Outline of the Specifications for Earthquake-Resistant Design of Highway Bridges in Japan
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

J0004, J1
Experimental Study of Embankment on Sandy Layers
Tadashi Arakawa : PWRI

J0005, J1
Dynamic Response Analysis for Seismic Design of Highway Bridges
Ryoji Hagiwara : PWRI

J0006, J1
Ductility Demand for Bridge Piers
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
Future Programs at Concrete Division, PWRI
Shigetoshi Kobayashi : PWRI

J0013, J1
Research Plan on Earthquake Resistance by Foundation Engineering Division
Kazuya Ohshima : PWRI

J0014, J1
Behavior of Concrete Filled Steel Tubes (Part-3 Beam-Column Members)
Shoichi Saeki, Toshitaka Miyata, Koichi Minosaku : PWRI

J0015, J1
Future Programs at Ground Vibration Division
Tadashi Arakawa : PWRI

J0016, J1
Future Programs at Earthquake Engineering Division, PWRI
Toshio Iwasaki : PWRI

J0017, J1
Earthquake Resistant Design and Tests of the Katashina-Gawa Bridge
Tsutomu Kadotani, Hiroshi Yoshida : Japan Highway Public Corporation

J0018, J1
Observation of the Behaviour of Multi-Span Continuous Girder Bridges
Hiroyoshi Miyauchi : Metropolitan Expressway Public Corporation

J0019, J1
Future Programs of Hanshin Expressway Public Corp.
Hiroyuki Nakajima : Hanshin Expressway Public Corporation

J0020, J1
Earthquake Resistant Design of Akashi Kaikyo Bridge
Mamoru Yamagata : Honshu-Shikoku Bridge Authority

J0021, J1
AASHTO Guide Specification Seismic Design for Highway Bridges
James D. Cooper : FHWA

J0022, J1
Seismic Resistant Bridge Design Criteria in California
James H. Gates : CALTRANS

J0023, J1
NBS Large Scale Seismic Testing Project
H.S. Lew : NBS

J0024, J1
Transportation Research Board Bridge Engineering Activities
Lawrence F. Spaine : Transportation Research Board

J0025, J1
Box Girder Bridge Hinge Restrainer Test Program
Lawrence G. Selna : University of California

J0026, J1
Implementation of the Analytical Capabilities Required for the Aseismic Design of Bridges
Roy A. Imbsen : Engineering Computer Corporation

J0027, J1
Seismic Response of Meloland Road Overpass
Stuart D. Werner, M.P. Levine, J.L. Beck, Sami F. Masri : Agbabian Associates

J0028, J1
Bridge Foundation Problems
Richard W. Arden : S.E.A. Inc. Consulting Engineers / Planners

J0029, J1
Full-Scale Dynamic Testings and Earthquake Response Characteristics of Suspension Bridges
Ahmed M. Abdel-Ghaffar : Princeton University

J0030, J1
AASHTO and Bridge Earthquake Engineering
Jack Freidenrich : New Jersey Department of Transportation

J0031, J1
Seismic Design Guidelines for Highway Bridges - A Brief Overview Concerning their Use
James Dodson : Nevada Department of Transportation

J0032, J1
Highway Bridge Design Specifications for Seismic Loads in U.S.
Veldo M. Goins : Oklahoma Department of Transportation

J0033, J1
Cable Stayed Bridges - Static and Dynamic Response
John F. Fleming : University of Pittsburgh

J0034, J1
Dynamic Field Testing of Full Scale Highway Bridges
Bru e M. Douglas : University of Nevada

J0035, J1
NSF Program
John B. Scalzi : NSF

J0036, J1
Prospective Experimental Research on Bridge Structures at the National Bureau of Standards
H.S. Lew : NBS

J0037, J1
FHWA Program of Earthquake Engineering Research
James D. Cooper : FHWA

J0038, J1
Research at the California Department of Transportation
James H. Gates : CALTRANS

J0039, J1
National Cooperative Highway Research Program
Lawrence F. Spaine : Transportation Research Board

J0040, J2
Basic Design Considerations for U.S. Long-Span Bridges Relative to Wind
Robert H. Scanlan : Princeton University

J0041, J2
Wind Resistant Design of Highway Bridge in Japan
Hirohiko Tada, Koichi Yokoyama, Hiroshi Sato : PWRI

J0042, J2
New Specifications for Earthquake Resistant Design of Highway Bridges in Japan
Eiichi Kuribayashi, Toshio Iwasaki, Osamu Ueda : Toyohashi University of Technology

J0043, J2
Seismic Analysis and Design of U.S. Highway Bridges
James H. Gates : CALTRANS

J0044, J2
Study on Wind-Resistant Design for Cable-Stayed Bridge - East Kobe Bridge
Masahiko Kitazawa, Tetsuo Oku : Hanshin Expressway Public Corporation

J0045, J2
Mechanical Damper for Suppressing Wind-Induced Vibration of Long-Span Bridges under Construction
Isamu Kano, Katsuaki Takeda : NKK Corporation

J0046, J2
New Considerations Relative to the Aeroelastic Stability of Cable-Stayed Bridges
Robert H. Scanlan : Princeton University

J0047, J2
Aeroelastic Behavior of Cable-Stayed Bridges
Robert L. Wardlaw : National Research Council of Canada

J0048, J2
Earthquake Resistant Design for Cable-Stayed Bridge - East Kobe Bridge
Masahiko Kitazawa : Hanshin Expressway Public Corporation

J0049, J2
Outline of Aseismatic Design for Honshu Shikoku Bridges
Mitsuru Goto, Kozo Higuchi : Honshu-Shikoku Bridge Authority

J0050, J2
Seismic Design of Long Span Bridge to Use Spring Shoe
Nayomon Uno : Ishikawajima-Harima Heavy Industries Co., Ltd.

J0051, J2
Earthquake-Response Characteristics of Cable-Stayed Bridges
Ahmed M. Abdel-Ghaffar, Aly S. Nazmy : University of Southern California

J0052, J2
Study on Behavior of Concrete Filled Steel Tubes
Hirohiko Tada, Hiroshi Shinohara, Koichi Minosaku, Akira Takizawa, Jun Hikino : PWRI

J0053, J2
Performance of Elastomeric Bearings Used for the Seismic Isolation of a Large-Scale Model Bridge Deck
Ian G. Buckle, James M. Kelly : Computech Engineering Service

J0054, J2
Investigations on the Design of Highway Bridges to Resist Earthquakes
Douglas A. Foutch, M.E. Barenberg, M.A. Saadeghvaziri : University of Illinois

J0055, J2
Experimental Investigation on Hysteretic Behavior of Reinforced Concrete Bridge Pier Columns
Toshio Iwasaki, Kazuhiko Kawashima, Ryoji Hagiwara, Kinji Hasegawa, Tatsuhiko Koyama, Takeshi Yoshida : PWRI

J0056, J2
Field Response Studies of Two Highway Bridges Subject to Simulated Earthquake Loads
Bruce M. Douglas, Ian G. Buckle : University of Nevada

J0057, J2
California Department of Transportation Bridge Earthquake Retrofitting Program
Ray J. Zelinski : CALTRANS

J0058, J2
UCLA Bridge Restrainer Testing Program
Lawrence G. Selna : University of California

J0059, J2
Strong-Motion Instrumentation and Data Interpretation for Bridge Structures : Fundamental Concepts and Research Needs
Stuart D. Werner : Agbabian Associates

J0060, J2
Strong-Motion Instrumentation, Data Acquisition and Interpretation
James H. Gates : CALTRANS

J0061, J3
Vibration Tests of the Completed S-Curved Cable Stayed Bridge
Sohei Ohno, Kazuo Yamazaki, Hiroshi Kikkawa : Metropolitan Expressway Public Corporation

J0062, J3
A Report on the Analysis and Design of Three U.S. Cable-Stayed Bridges
Steven L. Stroh : Greiner Engineering Science Inc.

J0063, J3
Vibrational Characteristics and Earthquake Resistant Design for Cable-Stayed Prestressed Concrete Bridge - Inagawa II Bridge
Morihisa Sugiyama : Hanshin Expressway Public Corporation

J0064, J3
Dynamic- and Seismic-Analysis Considerations for the Design of Long-Span Cable-Stayed Bridges
Ahmed M. Abdel-Ghaffar, Aly S. Nazmy : Princeton University

J0065, J3
Damping Characteristics of Cable-Stayed Bridges
Toshio Iwasaki, Kazuhiko Kawashima, Shigeki Unjo : PWRI

J0066, J3
Probability-Based Bridge Design Codes
Andrzej S. Nowak : University of Michigan

J0067, J3
Survey on the Lifespan of Highway Bridges
Minoru Fujiwara, Yasuhiko Iwasaki : PWRI

J0068, J3
Earthquake Resistant Design of Akashi Kaikyo Bridge
Satoshi Kashima, Masahiko Yasuda, Katsuyoshi Kanazawa, Koji Kawaguchi : Honshu-Shikoku Bridge Authority

J0069, J3
Earthquake Observation and Dynamic Analysis of Abutments on Soft Ground
Hideyuki Keto, Mikio Noda, Katsunori Tanaka : Japan Highway Public Corporation

J0070, J3
Damage Assessment and the Effects of Vertical Ground Motion on the Response of Highway Bridges
Douglas A. Foutch, M.E. Barenberg, M.A. Saadeghvaziri : University of Illinois

J0071, J3
Strong Earthquake Motion for Bridge Design
Yasushi Sasaki, Keiichi Tamura, Koh Aizawa : PWRI

J0072, J3
Effect of Resin Injection for Repairing Different Types of Ruptures in Reinforced Concrete Beams
Shigetoshi Kobayashi, Kazumasa Morihama, Masashi Takahashi, Hiroto Takahashi : PWRI

J0073, J3
An Evaluation of Seismic Design and Retrofit Methods in California and the U.S.
James H. Gates : CALTRANS

J0074, J3
Outline of the Studies Regarding the Aerodynamic Stability of the Stiffening Girder of the Akashi Kaikyo Bridge
Kazuo Tada, Masahiko Yasuda, Shuichi Suzuki : Honshu-Shikoku Bridge Authority

J0075, J3
Comparative Wind Tunnel Testing of Bridge Road Decks
Robert L. Wardlaw, H. Tanaka, S.J. Zan, Michael G. Savage, H. Yamada : National Research Council of Canada

J0076, J3
Wind Resistant Design of Cable-Stayed Bridges
Koichi Yokoyama, Hiroshi Sato : PWRI

J0077, J3
On Interpreting Model and Prototype Responses of Suspended-Span Bridges to Wind
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This publication communicates the results of the work of the Panel on Wind and Seismic Effects during the period 1969 through 1991. The Panel is one of 16 Panels comprising the U.S.-Japan Cooperative Program in Natural Resources. Publications constitute a major end product of the Panel's efforts. This publication is divided into five chapters: 1. Panel background and activities; 2. information about using this publication; 3. title index of Panel publications from 1969 through 1991; 4. title index of Task Committee publications from 1969 through 1991; and 5. author listing.

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National Standard Reference Data Series—Provides quantitative data on the physical and chemical properties of materials, compiled from the world's literature and critically evaluated. Developed under a worldwide program coordinated by NIST under the authority of the National Standard Data Act (Public Law 90-396). NOTE: The Journal of Physical and Chemical Reference Data (JPCRD) is published bimonthly for NIST by the American Chemical Society (ACS) and the American Institute of Physics (AIP). Subscriptions, reprints, and supplements are available from ACS, 1155 Sixteenth St., NW., Washington, DC 20056.

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