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***NIST Special Publication 835***

**NIST  
PUBLICATIONS**

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**List of Publications 1969 – 1991**

**Panel on Wind and Seismic Effects**

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**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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835  
1992  
C.2**

**T**he National Institute of Standards and Technology was established in 1988 by Congress to “assist industry in the development of technology . . . needed to improve product quality, to modernize manufacturing processes, to ensure product reliability . . . and to facilitate rapid commercialization . . . of products based on new scientific discoveries.”

NIST, originally founded as the National Bureau of Standards in 1901, works to strengthen U.S. industry’s competitiveness; advance science and engineering; and improve public health, safety, and the environment. One of the agency’s basic functions is to develop, maintain, and retain custody of the national standards of measurement, and provide the means and methods for comparing standards used in science, engineering, manufacturing, commerce, industry, and education with the standards adopted or recognized by the Federal Government.

As an agency of the U.S. Commerce Department’s Technology Administration, NIST conducts basic and applied research in the physical sciences and engineering and performs related services. The Institute does generic and precompetitive work on new and advanced technologies. NIST’s research facilities are located at Gaithersburg, MD 20899, and at Boulder, CO 80303. Major technical operating units and their principal activities are listed below. For more information contact the Public Inquiries Desk, 301-975-3058.

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### **Technology Services**

- Manufacturing Technology Centers Program
- Standards Services
- Technology Commercialization
- Measurement Services
- Technology Evaluation and Assessment
- Information Services

### **Electronics and Electrical Engineering Laboratory**

- Microelectronics
- Law Enforcement Standards
- Electricity
- Semiconductor Electronics
- Electromagnetic Fields<sup>1</sup>
- Electromagnetic Technology<sup>1</sup>

### **Chemical Science and Technology Laboratory**

- Biotechnology
- Chemical Engineering<sup>1</sup>
- Chemical Kinetics and Thermodynamics
- Inorganic Analytical Research
- Organic Analytical Research
- Process Measurements
- Surface and Microanalysis Science
- Thermophysics<sup>2</sup>

### **Physics Laboratory**

- Electron and Optical Physics
- Atomic Physics
- Molecular Physics
- Radiometric Physics
- Quantum Metrology
- Ionizing Radiation
- Time and Frequency<sup>1</sup>
- Quantum Physics<sup>1</sup>

### **Manufacturing Engineering Laboratory**

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

### **Materials Science and Engineering Laboratory**

- Intelligent Processing of Materials
- Ceramics
- Materials Reliability<sup>1</sup>
- 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<sup>2</sup>
- Statistical Engineering<sup>2</sup>
- Scientific Computing Environments<sup>2</sup>
- Computer Services<sup>2</sup>
- Computer Systems and Communications<sup>2</sup>
- Information Systems

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<sup>1</sup>At Boulder, CO 80303.

<sup>2</sup>Some elements at Boulder, CO 80303.

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# List of Publications 1969 – 1991

## Panel on Wind and Seismic Effects

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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



The first part of the paper discusses the importance of the study. It highlights the need for a comprehensive understanding of the subject matter. The second part of the paper presents the methodology used in the study. It describes the data collection process and the analysis techniques. The third part of the paper discusses the results of the study. It presents the findings and discusses their implications. The fourth part of the paper concludes the study. It summarizes the main points and provides a final statement.

# LIST OF PUBLICATIONS 1969 - 1991

## PANEL ON WIND AND SEISMIC EFFECTS

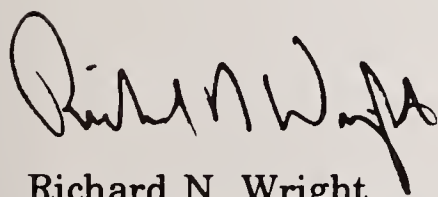
### PREFACE

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.

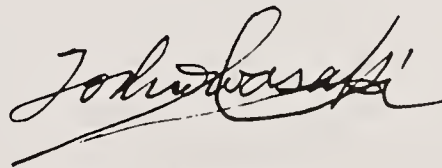
The idea of creating a List of Publications of this Panel's work first surfaced in 1988 for the occasion of its 20th anniversary. Three years later this idea was brought to realization in support of the International Decade for Natural Disaster Reduction (IDNDR). This List notifies the many organizations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



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## 2. 1991-1992

The 1991-1992 season was characterized by a relatively early start to the growing season, with above-average rainfall in the spring. This was followed by a period of drought in the summer, which led to a significant reduction in the water available to the crops. The overall yield was lower than in previous years, and the quality of the produce was also affected. The main reason for the low yield was the lack of water, which caused the plants to wilt and die. The quality of the produce was also affected by the drought, as the plants were stressed and produced smaller, less flavorful fruits. The 1991-1992 season was a challenging one for the farmers, and they had to take extra steps to ensure that their crops survived. They used a variety of techniques, including irrigation and mulching, to help the plants withstand the drought. Despite these efforts, the yield was still lower than in previous years, and the quality of the produce was also affected.

Crop		Yield (kg/ha)	Quality (kg/ha)
Wheat	1991-1992	1500	1200
	1992-1993	1800	1500
Barley	1991-1992	1200	1000
	1992-1993	1500	1300
Oats	1991-1992	1000	800
	1992-1993	1200	1000
Rye	1991-1992	800	600
	1992-1993	1000	800
Corn	1991-1992	600	400
	1992-1993	800	600
Soybeans	1991-1992	400	200
	1992-1993	600	400
Beans	1991-1992	300	100
	1992-1993	500	300
Peas	1991-1992	200	100
	1992-1993	400	200
Lentils	1991-1992	100	50
	1992-1993	300	100

The 1991-1992 season was a challenging one for the farmers, and they had to take extra steps to ensure that their crops survived. They used a variety of techniques, including irrigation and mulching, to help the plants withstand the drought. Despite these efforts, the yield was still lower than in previous years, and the quality of the produce was also affected. The 1992-1993 season was a more successful one, with above-average rainfall in the spring and a period of drought in the summer. The overall yield was higher than in previous years, and the quality of the produce was also improved. The main reason for the high yield was the availability of water, which allowed the plants to grow and produce more. The quality of the produce was also improved by the water, as the plants were not stressed and produced larger, more flavorful fruits. The 1992-1993 season was a successful one for the farmers, and they were able to produce a good crop of wheat, barley, oats, rye, corn, soybeans, beans, peas, and lentils. They were able to use the same techniques as in the 1991-1992 season, but the results were much better. The 1992-1993 season was a good one for the farmers, and they were able to produce a good crop of wheat, barley, oats, rye, corn, soybeans, beans, peas, and lentils.



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## BACKGROUND

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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 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<br>( 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<br>Facilities        |



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## USING THIS PUBLICATION

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## 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<sup>a)</sup>, 20<sup>b)</sup>, B<sup>c)</sup>

**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<sup>a)</sup>, C2<sup>b)</sup>

**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**

#### **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



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**PUBLISHED REPORTS INDEX of  
JOINT PANEL MEETINGS**

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### 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 : NRCDDP
- 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  
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 Mineo Nagamori, Kazuya Yamamura, Yasushi Sasaki : PWRI
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**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 Hirokawa, Shin Okamoto, Toney Endo : BRI
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**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  
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 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-Astroynamics 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. 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



- 0085, 5, B  
**The Research Project on the Automatic Analysis of the Seismic Observation by the Japan Meteorological Agency**  
Akira Suwa, Masaji Ichikawa : MRI
- 0086, 5, B  
**Characteristics of Base Rock Motions Calculated from Strong Motion Accelerograms**  
Satoshi Hayashi, Hajime Tsuchida, Tatsuo Uwabe : PHRI
- 0087, 5, B  
**On the Characteristics of the Strong Earthquake Motions Observed in Japan**  
Makoto Watabe, Yoshikazu Kitagawa : BRI
- 0088, 5, B  
**The Cerl Biaxial Shock Test Machine**  
John J. Healy :
- 0089, 5, B  
**Earthquake Engineering Design of Earth Fills**  
Kazuya Yamamura : PWRI
- 0090, 5, B  
**Wood Structure Performance in an Earthquake in Anchorage, Alaska March 27, 1964**  
L.O. Anderson, J.A. Liska : Forest Products Laboratory, Department of Agriculture
- 0091, 5, B  
**Estimation of a Seismicity of Port Structures**  
Satoshi Hayashi, Hajime Tsuchida, Setsuo Noda : PHRI
- 0092, 5, B  
**Dynamic Behavior of Concrete Dams**  
Keith O. O'Donnell : CORPS
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**Vibration Characteristics of the North Fork Dam**  
Jimmy P. Balsara : WES
- 0094, 5, B  
**Ductility Testing of Portal Frames in a Concrete Modular Highrise Building System**  
William J. Werner : HUD
- 0095, 5, B  
**Judgement Standard for Earthquake Properties of Existing Reinforced Concrete Buildings**  
Kiyoshi Nakano, Masaya Hirose : BRI
- 0096, 5, B  
**Earthquake Resistant Criteria for Underground Structures**  
Eiichi Kuribayashi : PWRI  
Toshio Iwasaki : BRI
- 0097, 5, A,B  
**Present State of Research Activity in Japan regarding Structures against Wind and Earthquake**  
Seiichi Inaba : NRCDP
- 0098, 5, B  
**Research Project on New Criteria for Earthquake Resistant Design for over-all Structures**  
Mitsuru Nagao : PWRI
- 0099, 5, B  
**On the Trainings in the International Institute of Seismology and Earthquake Engineering, TOKYO**  
Tetsuo Santo : BRI
- 0100, 5, B  
**Preliminary Survey on Seismology and Earthquake Engineering in the Union of Burma**  
Eiichi Kuribayashi : PWRI
- 0101, 5, B  
**Determination of Earthquake Hazards in Densely Populated Areas and Preventive Measures to be Considered in Urban Planning**  
Naokazu Koiwai, Katsumi Miyawaki : Yokohama City
- 0102, 5, B  
**Building Performance in the 1972 MANAGUA Earthquake**  
Richard N. Wright, Samuel Kramer : Institute for Applied Technology, NBS
- 0103, 5, B  
**Preliminary Report on Damage of MANAGUA Earthquake December 23, 1972**  
Tadayoshi Ohkubo : PWRI  
Seiichi Inaba : NRCDP  
Shin Okamoto : BRI
- 0104, 6, A  
**On the Gust Response of Long-Span Suspension Bridges (Progressive Report)**  
Nobuyuki Narita, Koichi Yokoyama : PWRI
- 0105, 6, A  
**Extreme Winds in Hurricanes and Possibility of Modifying them**  
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

- 0107, 6, A  
**Wind Tunnel Experiments for Studying a Local Wind**  
Ken Suda, Seiji Soma, Kiyohide Takeuchi : MRI
- 0108, 6, A  
**A Study of Wind Pressures on a Single-Family Dwelling in Model and Full Scale**  
Richard D. Marshall : Center for Building Technology, NBS
- 0109, 6, B  
**Nonlinear Calculations of Ground Response in Earthquakes**  
William B. Joyner, Albert T.F. Chen, Patrick C. Doherty : USGS
- 0110, 6, B  
**Observation and Analysis of Ground Response in Earthquakes**  
Satoshi Hayashi, Hajime Tsuchida : PHRI
- 0111, 6, B  
**Research Study on Liquefaction**  
William F. Marcuson III : WES
- 0112, 6, B  
**Estimation of Liquefaction Potential by Means of Explosion Test**  
Kazuya Yamamura, Yasuyuki Koga : PWRI
- 0113, 6, B  
**Landslide Incidence and Mechanisms during Earthquakes**  
George E. Ericksen : USGS
- 0114, 6, B  
**Dynamics of Soil Structures and Ground Response in Earthquake Stress Condition Effects on Dynamic Properties of Soils**  
Eiichi Kuribayashi : PWRI  
Toshio Iwasaki : BRI
- 0115, 6, B  
**Prediction of Maximum Earthquake Intensities for the San Francisco Bay Region**  
Roger D. Borchardt, James F. Gibbs : USGS
- 0116, 6, Z  
**A Statistical Approach to Loading and Failure of Structures**  
Ronald G. Merritt : U.S. Army Construction Engineering Research Laboratory
- 0117, 6, B  
**Synthetic Experimental Research on Ductilities of Reinforced Concrete Short Columns under Large Deflection**  
Kiyoshi Nakano, Masaya Hirose : BRI
- 0118, 6, A  
**Nonlinear Analysis of Guyed Tower**  
Stanley K. Takahashi, Warren A. Shaw : NCEL
- 0119, 6, B  
**The Regulation for Structural Properties of Prefabricated Dwellings**  
Kiyoshi Nakano, Masaya Hirose, Tatsuo Murota : BRI
- 0120, 6, B  
**An Analytical Model for Determining Energy Dissipation in Dynamically Loaded System**  
John F. McNamara, S.K. Sharma : University of Illinois
- 0121, 6, B  
**Design of Pile Foundation Subjected to Lateral Load**  
Tadayoshi Ohkubo, Keiichi Komada, Asao Yamakawa : PWRI
- 0122, 6, B  
**Comprehensive Seismic Design Provisions for Buildings**  
Charles G. Culver : Center for Building Technology, NBS
- 0123, 6, A  
**Wind Loading and Modern Building Codes**  
Emil Simiu, Richard D. Marshall : Center for Building Technology, NBS
- 0124, 6, B  
**Seismic Retrofitting of Existing Highway Bridges**  
James D. Cooper, R. Richard Robinson : FHWA  
Anatole Longinow : IIT Research Institute
- 0125, 6, B  
**Dynamic Tests of Structures by Use of Large Scale Shaking Table**  
Seiichi Inaba : NRCDCP
- 0126, 6, A,B  
**A Methodology for Evaluation of Existing Building against Earthquake, Hurricane and Tornado**  
H.S. Lew, Charles G. Culver : Center for Building Technology, NBS
- 0127, 6, B  
**Experimental Research on the Aseismic Characteristic of Spherical Steel Tank for Liquid Petroleum Gas**  
Kiyoshi Nakano, Makoto Watabe : BRI
- 0128, 6, B  
**Research on Minimizing Earthquake Structural Damage to Single Family Dwellings**  
William J. Werner : HUD



- 0129, 6, B  
**Earthquake Engineering Research Supported by the National Science Foundation**  
Charles C. Thiel : Earthquake Engineering Research Applications Directorate (RANN), NSF
- 0130, 6, Z  
**Preliminary Report on Present Status and Development Project of Volcanological Observation and Research in Indonesia**  
Akira Suwa : MRI
- 0131, 6, Z  
**Use of Stabilized Adobe Block and Cane in Construction of Low-Cost Housing in Peru**  
S.G. Fattal : Center for Building Technology, NBS
- 0132, 6, Z  
**A Comment on the Technological Aid to Developing Countries**  
Tadayoshi Ohkubo : PWRI
- 0133, 7, A  
**Present Status of the Study of the Structure of Wind in Japan**  
Kiyohide Takeuchi : MRI
- 0134, 7, A  
**A Reexamination of Hurricane Camille**  
Arnold R. Hull : Environmental Data Service, NOAA
- 0135, 7, A  
**Fire Tornado and its Maximum Wind-Speed**  
Seiji Soma, Ken Suda : MRI
- 0136, 7, A  
**A Research Project on the Wind Flow around Tall Buildings**  
Tatsuo Murota, Kiyoshi Nakano : BRI
- 0137, 7, A  
**Wind Engineering Research Program Supported by the National Science Foundation**  
Michael P. Gaus : NSF
- 0138, 7, A  
**Study on the Wind Pressure and the Response of Roof Corners**  
Tatsuo Murota, Mitsuo Nakahara : BRI
- 0139, 7, B  
**Highway Bridge Seismic Research**  
James D. Cooper : FHWA
- 0140, 7, A  
**On the Wind Response of the Kanmon Bridge**  
Tadayoshi Ohkubo, Nobuyuki Narita, Koichi Yokoyama : PWRI
- 0141, 7, A  
**Luling, Louisiana Cable-Stayed Bridge Wind Tunnel Section Model Tests**  
Richard H. Gade, Walter Podolny, Jr., Harold R. Bosch : FHWA
- 0142, 7, B  
**On the Regional Distribution of the Earthquake Danger in Japan**  
Sadaiku Hattori, Yoshikazu Kitagawa, Tetsuo Santo : BRI
- 0143, 7, B  
**Quantification of Seismicity**  
Tsutomu Terashima, Tetsuo Santo : BRI
- 0144, 7, B  
**On the Maintenance of the Strong-Motion Accelerograph and the Data Processing of the Records**  
Eiichi Kuribayashi : PWRI  
Hajime Tsuchida : PHRI  
Makoto Watabe : BRI
- 0145, 7, B  
**The United States Strong-Motion Network : Field Operations**  
Richard P. Maley : USGS
- 0146, 7, B  
**Strong-Motion Data Management**  
Christopher Rojahn : USGS
- 0147, 7, B  
**Brief Review on Liquefaction during Earthquakes in Japan**  
Eiichi Kuribayashi, Fumio Tatsuoka : PWRI
- 0148, 7, B  
**Vibration Test on Settlement of Submerged Sand Layer**  
Kenkichi Sawada, Yasuyuki Koga : PWRI
- 0149, 7, B  
**Study on Earthquake Response of Structures by Considering Non-Deterministic Variables**  
Yutaka Yamazaki, Yasunori Koizumi : BRI
- 0150, 7, B  
**Least Weight Structures for Threshold Frequencies**  
Richard D. McConnell :
- 0151, 7, B  
**Ductile Shear Walls in Earthquake-Resistant Multistory Buildings**  
Mark Fintel : Portland Cement Association

0152, 7, B  
**Surveillance of Corps of Engineers Structures  
in Earthquake-Prone Areas**  
Keith O. O'Donnell : CORPS

0153, 7, B  
**School and Hospital Construction in  
California**  
John F. Meehan : Office of Architecture and  
Construction, Department of General Services, State of  
California

0154, 7, B  
**Improved Earthquake Resistive Design and  
Construction of Single-Family Residential  
Dwellings**  
G. Robert Fuller : HUD

0155, 7, B  
**Dynamic Tests of Structures for Oil Tanks  
and Nuclear Power Plant**  
Seiichi Inaba : NRCDP

0156, 7, B  
**Sheet Pile Foundation and its Structural  
Characteristics against Horizontal Loads**  
Kenji Kawakami, Tadayoshi Ohkubo, Keiichi Komada,  
Michio Okahara : PWRI

0157, 7, B  
**On Specifications for Earthquake-Resistant  
Design of Highway Bridges (January 1971)**  
Kenji Kawakami, Eiichi Kuribayashi, Yutaka Iida :  
PWRI  
Toshio Iwasaki : BRI

0158, 7, B  
**On Specifications for Earthquake-Resistant  
Design of the Honshu-Shikoku Bridges (JSCE  
1974)**  
Ishio Kawasaki : Honshu-Shikoku Bridge Authority  
Eiichi Kuribayashi : PWRI

0159, 7, B  
**Recent Revision of Design Standards on  
Seismic Effects for Port and Harbour  
Structures**  
Satoshi Hayashi, Hajime Tsuchida, Setsuo Noda : PHRI

0160, 7, B  
**JSCE Specifications for Earthquake Resistant  
Design of Submerged Tunnels (1975)**  
Eiichi Kuribayashi : PWRI  
Hajime Tsuchida : PHRI

0161, 7, D  
**A Proposal to the Joint Research Program on  
the Aseismic Properties of R.C. Structure by  
the Full Size Specimens**  
Makoto Watabe, Masaya Hirose, Shinsuke Nakata :  
BRI

0162, 7, D  
**Earthquake Disaster Mitigation : A Joint  
Research Approach**  
Charles C. Thiel, John B. Scalzi : Earthquake  
Engineering Research Applications Directorate (RANN),  
NSF

0163, 7, A  
**High Wind Study in the Philippines**  
Noel J. Raufaste, Jr., Richard D. Marshall : Center for  
Building Technology, NBS

0164, 7, B  
**Survey on Seismology and Earthquake  
Engineering in India, Iran and Turkey**  
Makoto Watabe, Hideo Tokuhito, Masakazu Shinozuka :  
BRI

0165, 8, A  
**Aspects of Hurricane Winds as Recorded at an  
Instrumented Suspension Bridge**  
Richard H. Gade : FHWA  
Robert H. Scanlan : Princeton University

0166, 8, A  
**Study on the Wind Effect on Eaves**  
Tatsuo Murota : BRI

0167, 8, A  
**Measurements of Wind Loads and Tie-Down  
Forces on Mobile Homes**  
Richard D. Marshall, Robert A. Crist : NBS

0168, 8, A  
**On the Wind Resistant Design Specifications  
for the Proposed Honshu-Shikoku Bridges  
(1975)**  
Tadayoshi Ohkubo, Nobuyuki Narita : PWRI

0169, 8, A  
**Equivalent Static Wind Loads for Tall  
Building Design**  
Emil Simiu : Center for Building Technology, NBS

0170, 8, A  
**A Wood House Will Resist Wind Forces**  
Billy Bohannon : Forest Products Laboratory

0171, 8, A  
**Wind Loads on Low-Rise Buildings**  
Noel J. Raufaste, Jr. : NBS

0172, 8, A  
**Characteristics of the High Wind at  
Hachijojima Island on the Occasion of  
Typhoon No. 7513**  
Seiji Soma : MRI



- 0173, 8, A  
**High Winds in the United States, 1975**  
Arnold R. Hull, Thomas D. Potter, Nathaniel B. Guttman : Environmental Data Service, NOAA
- 0174, 8, A  
**Mean Speed Profiles of Hurricane Winds**  
Emil Simiu : Center for Building Technology, NBS  
Virendra C. Patel : University of Iowa  
John F. Nash : Sybucon, Inc.
- 0175, 8, B  
**Planning and Design of Strong-Motion Instrument Networks**  
R.B. Matthiesen : USGS
- 0176, 8, B  
**Observation of Earthquake Response of Ground with Horizontal and Vertical Seismometer Arrays**  
Satoshi Hayashi, Hajime Tsuchida, Eiichi Kurata : PHRI
- 0177, 8, B  
**Building Strong-Motion Earthquake Instrumentation**  
Christopher Rojahn : USGS
- 0178, 8, B  
**Characteristics of Underground Seismic Motions at Four Sites around Tokyo Bay**  
Toshio Iwasaki, Susumu Wakabayashi, Fumio Tatsuoka : PWRI
- 0179, 8, B  
**Relationship between Earthquake Damage of Existing Wooden Houses and Seismic Intensities**  
Eiichi Kuribayashi, Tadayuki Tazaki, Takayuki Hadate : PWRI
- 0180, 8, B  
**A Method for Calculating Nonlinear Seismic Response in Two Dimensions**  
William B. Joyner : USGS
- 0181, 8, B  
**A New Scale Representing the "Quake-Sensitivity" at a Certain Region**  
Tsutomu Terashima, Tetsuo Santo : BRI
- 0182, 8, A  
**Damage to the Civil Engineering Structures in Hachijojima Island by Typhoon 7513**  
Tadayoshi Ohkubo, Nobuyuki Narita, Koichi Yokoyama : PWRI
- 0183, 8, A  
**Cyclone Tracy**  
Richard D. Marshall : Center for Building Technology, NBS
- 0184, 8, A  
**On the Damage to Building in Hachijojima Caused by Typhoon No. 7513**  
Tatsuo Murota : BRI
- 0185, 8, B  
**Seismic Response of Reinforced Concrete Highway Bridges**  
J. Penzien, W.G. Godden, M.C. Chen, D. Williams, Kazuhiko Kawashima : University of California
- 0186, 8, B  
**An Evaluation Method for the Earthquake Resistant Capacity of Reinforced Concrete and Steel Reinforced Concrete Columns**  
Masakazu Ozaki, Yuji Ishiyama : BRI
- 0187, 8, B  
**The Earthquake Engineering Program of the National Science Foundation**  
John B. Scalzi : NSF
- 0188, 8, A,B  
**Large-Scale Testing Programs Related to Wind and Seismic Effects Currently Underway in Japan**  
Seiichi Inaba : NRCDP
- 0189, 8, B  
**Earthquake Damages to Earth Structures**  
Kenkichi Sawada : PWRI
- 0190, 8, B  
**Dynamic Test of a Circuit Breaker for Transformer Substation**  
Seiichi Inaba, Shigeo Kinoshita : NRCDP
- 0191, 8, B  
**Comprehensive Seismic Design Provisions for Buildings A Status Report**  
Charles G. Culver : NBS
- 0192, 8, B  
**Retrofitting of Vulnerability in Earthquake Disaster Mitigation Problems**  
Kaoru Ichihara, Eiichi Kuribayashi, Tadayuki Tazaki : PWRI
- 0193, 8, B  
**Dynamic Response Characteristics of a Model Arch Dam**  
Charles D. Norman, Roger D. Crowson, Jimmy P. Balsara : Weapons Effects Laboratory, WES
- 0194, 8, B  
**The Measurement of the Dynamic k-Value in Site and its Application to Design**  
Tetsuo Kunihiro, Kaname Yahagi, Michio Okahara : PWRI

- 0195, 8, B  
**Laboratory Investigation of Undisturbed Sampling and Standard Penetration Tests on Fine Sands**  
 William F. Marcuson III, S.S. Cooper, M.A.  
 Bieganousky : WES
- 0196, 8, B  
**Dynamic Soil Properties with Emphasis on Comparison of Laboratory Tests and Field Measurements**  
 Toshio Iwasaki, Fumio Tatsuoka : PWRI
- 0197, 8, B  
**Design Earthquakes**  
 Ellis L. Krinitzsky, Frank K. Chang : WES
- 0198, 8, B  
**Relation between Seismic Coefficient and Ground Acceleration for Gravity Quaywall**  
 Satoshi Hayashi, Setsuo Noda, Tatsuo Uwabe : PHRI
- 0199, 8, B  
**Investigation of Earthquake Resistance of Structural (Shear) Wall Buildings Carried out at Portland Cement Association**  
 Mark Fintel : Portland Cement Association
- 0200, 8, Z  
**A Philosophy for Structural Integrity of Large Panel Buildings**  
 Mark Fintel, Donald M. Schultz : Portland Cement Association
- 0201, 8, A,B  
**Wind and Seismic Design of United States Nuclear Power Plants**  
 Lawrence C. Shao, Richard J. Stuart, Charles H. Hofmayer : NRC
- 0202, 8, B  
**Outline of Basic Philosophy and Practices of Aseismic Design for Nuclear Facilities in Japan**  
 Makoto Watabe, Yorihiro Ohsaki : BRI
- 0203, 8, A  
**Tornado-Borne Missiles**  
 James F. Costello : NRC
- 0204, 8, B  
**Structural Damage to Bridges Resulting from the Guatemala Earthquake**  
 James D. Cooper : FHWA
- 0205, 9, A  
**On Distribution Models of Pressure and Wind over Stationary Typhoon Fields**  
 Shigemi Fujiwara, Kiyoshi Kurashige : MRI
- 0206, 9, A  
**Extreme Winds in the United States**  
 Thomas D. Potter, Michael J. Changery : Environmental Data Service, NOAA
- 0207, 9, A  
**Aerodynamic Stability of a Long-Span Suspension Bridge at Construction Stage**  
 Tetsuo Kunihiro, Nobuyuki Narita, Koichi Yokoyama : PWRI
- 0208, 9, B  
**Present Situation of Earthquake Prediction Research in Japan**  
 Kazuo Hamada, Hiroshi Takahashi : NRCDP  
 Hiroshi Sato : GSI  
 Akira Suwa : MRI
- 0209, 9, B  
**The Complementary Importance of Earthquake Prediction and Structural Response Estimation in Seismic Design and Planning Decisions**  
 Robin K. McGuire : USGS
- 0210, 9, B  
**Research and Development of Permanent Ocean-Bottom Seismograph Observation System off the Pacific Coast of Central Honshu, Japan**  
 Akira Suwa, Norio Yamakawa, Tatsuo Iinuma : MRI
- 0211, 9, B  
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 Fumio Yamamizu, Hiroshi Takahashi : NRCDP  
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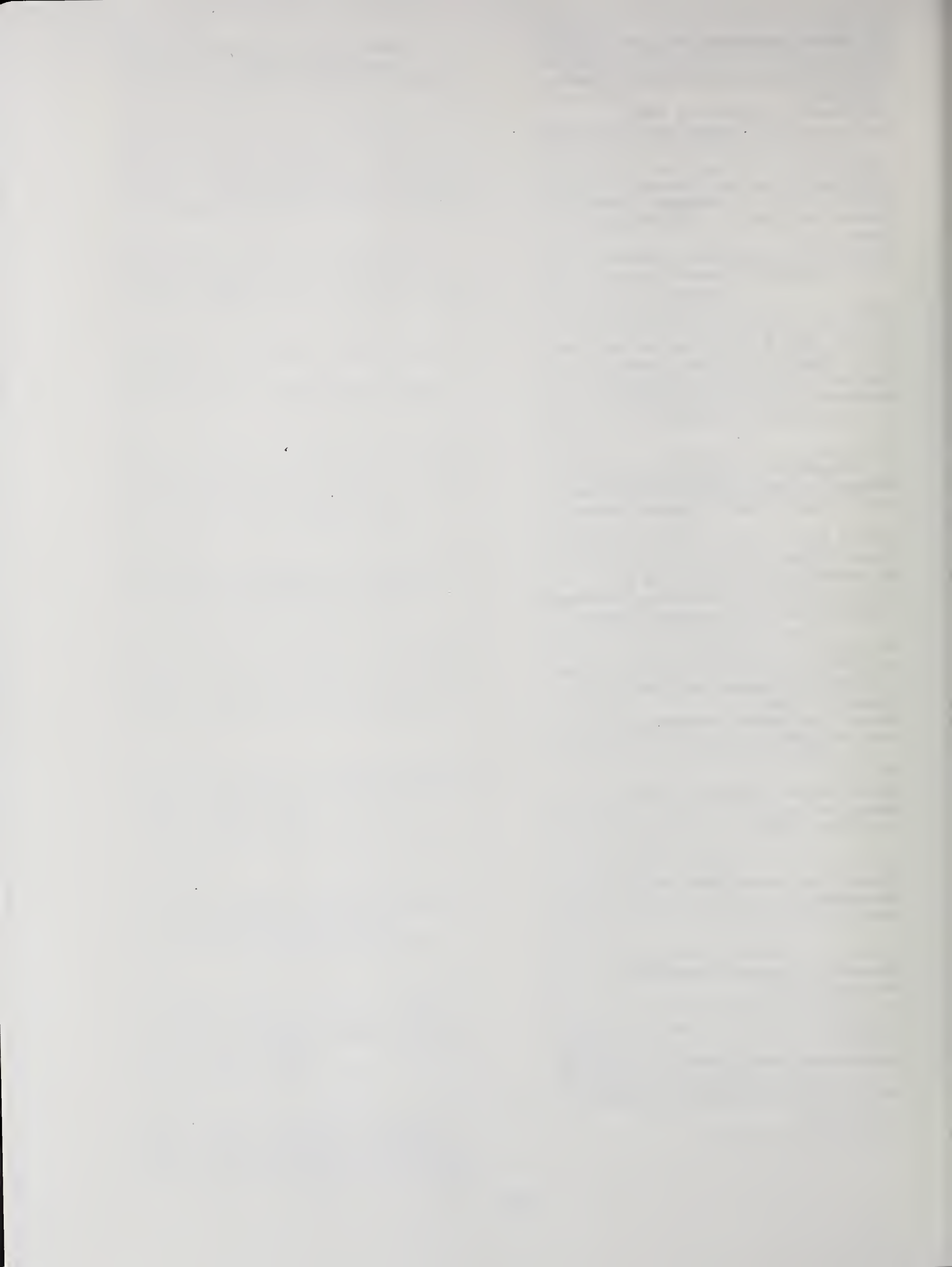
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Joseph M. Plecnik, Mai G. Pham : California State University
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Andrew D. Cowel, Egor P. Popov, Vitelmo V. Bertero : University of California at Berkeley
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Kiyoshi Nakano, Shin Okamoto, Toshiyuki Kubota, Takashi Kaminosono : BRI
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James D. Cooper, Richard V. Nutt, Ronald L. Mayes : FHWA
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LeVal Lund : Los Angeles Department of Water and Power
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George E. Greenwood : H.J. Degenkolb & Associates
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**Earthquake Bracing Program United States Geologic Survey**  
Nicholas F. Forell : Forell/Elsesser Engineers
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**Bridge Retrofitting Details**  
 Oris H. Degenkolb : Highway Department, State of California
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 James L. Noland, Richard H. Atkinson, John C. Baur : Atkinson-Noland & Associates
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 Y. Higashi, Toneo Endo, Y. Shimizu : Tokyo Metropolitan University
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**Studies Regarding Repair and Retrofitting of the Imperial Country Services Building, El Centro, California**  
 Vitelmo V. Bertero : University of California at Berkeley
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**Reinforcing Steel Considerations Unique to Repair and Retrofit**  
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**Damage to Buildings from Urakawa-Oki, Japan, Earthquake of March 21, 1982**  
 Shin Okamoto, Tatsuo Murota, Yutaka Yamazaki, Eiichi Itoigawa : BRI
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**Vibration Testing of an Epoxy-Repaired Four-Story Reinforced Concrete Structure**  
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**Overall Design Standard for Earthquake Resistant Capacity of Governmental Buildings**  
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**Recent Five Years Source List on Repair and Retrofit for RC Buildings due to Earthquakes**  
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 Hisahiro Hiraishi, M. Murakami, Tsuneo Okada, M. Ohkubo, S. Ohtani, K. Takiguchi : BRI
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**Aseismic Performance and Strengthening of Existing RC Building Structures**  
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**Performance of Buildings for "High-Tech" Industries in Silicon Valley in the Roma Prieta Earthquake**  
 Maryann T. Phipps : H.J. Degenkolb & Associates
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**Actual Examples of Seismic Judgement for Existing Buildings with or without Retrofitting**  
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**Implications of the Roma Prieta Earthquake on Building Requirements and Regulations**  
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**Current System for Inspection / Evaluation / Restoration of Earthquake Damaged Buildings and its Background and Future Issues**  
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 Le-Wu Lu, Ben T. Yen : Lehigh University
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**Ultimate Seismic Strength and Ductility Index of Reinforced Concrete Buildings Strengthened with Steel Brace and Steel Panel**  
 Y. Yamamoto, Masaya Hirosawa : Shibaura Institute of Technology
- C0093, C5**  
**Method of Strengthening and Designing Shear Connectors between Existing Reinforced Concrete Frame and Infilled Steel Brace and Panel**  
 Y. Yamamoto, H. Aoyama : Shibaura Institute of Technology
- C0094, C5**  
**Ultimate Shear Strength of Reinforced Concrete Members with Extremely Small Shear Span Ratios**  
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**Recent Research Results in Strengthening Methods by Steel Brace and Panel on Existing Reinforced Concrete Frames**  
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**Experimental Study on Mortar Joints between Reinforced Concrete Frame and Steel Shear Brace**  
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## **TASK COMMITTEE "D" Evaluation of Structural Performance**

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- D0002, D1  
**A Method for the Evaluation of the Seismic Capacity of Existing Reinforced Concrete Buildings in Japan**  
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- D0003, D1  
**Safety Evaluation of Existing Buildings**  
J.T.P. Yao : Purdue University
- D0004, D1  
**A Methodology to Evaluate the Vulnerability of Buildings to Earthquake Damage**  
Sigmund A. Freeman : Wiss Janney Elstner Associates
- D0005, D1  
**Practical Application of the Evaluation Standard in Specific Earthquake Hazardous Locality**  
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**Seismic Hazard Evaluation Methods of Existing Buildings**  
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- D0007, D1  
**Evaluation and Screening of Large Groups of Buildings**  
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- D0008, D1  
**Structural Evaluation of Multistory Residential Buildings for Seismic Resistance**  
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**Summary of Various Computer Programs to Evaluate Structural Performance against Earthquake Excitations**  
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**Post-Earthquake Evaluation Methodologies of Safety of Structures**  
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- D0023, D2**  
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**Inelastic Seismic Tests on a Full-Scale Six-Story Concrete-K Braced Steel Building -U.S.-Japan Cooperative Research Program-**  
 Hiroyuki Yamanouchi, Mitsumasa Midorikawa, Toshibumi Fukuta : BRI
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 Tsuneo Okada, Masaya Hirose, Hisahiro Hiraishi, Manabu Yoshimura : University of Tokyo
- D0043, D3**  
**Emergency Standard for Classification of Risk Levels of Earthquake Damaged Reinforced Concrete Buildings**  
 S. Ohtani : University of Tokyo
- D0044, D3**  
**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
- D0045, D3**  
**Earthquake Observation of the Fifth Building**  
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## **TASK COMMITTEE "E" Ground Motion and Seismic Design Forces Program**

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**E0002, E1**

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Eiichi Kuribayashi, T. Jiang, Tadashi Niino, 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 -**

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**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**

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Columbia University
- F0002, F2**  
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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**  
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- 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**  
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- F0009, F2**  
**Experiments and Field Observations of Seismic Protection on Computer Facilities**  
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- F0010, F2**  
**Earthquake-Resistant Design of Underground Pipelines**  
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Gary M. Snyder : Metropolitan Water District of  
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Jeffrey A. Farrar : Engineering and Research Center,  
BUREC

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PHRI

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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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Masakazu Takahashi : Nihon University

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Yasuyuki Koga, Osamu Matsuo, Jun-ichi Koseki,  
Minoru Enokida, Takashi Matsuda, Kichio Suzuki :  
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Susumu Yasuda, Hisashi Tsuchiya, Naonobu Narumi :  
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Hiroaki Hattori, Masanobu Arano : NTT Tsukuba Field  
Engineering Development Center

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A.E. Templeton, T.W. Forrest, S.T. Stacy : University  
of British Colombia

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Shoichi Saya : PWRI

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Ikuro Tohata, Yukio Tamari, Kazuhiko Yamada :  
University of Tokyo

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Uchida : Kyushu Institute of Technology

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 Susumu Iai, Tomohiro Kameoka : PHRI
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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
- H0024, H3  
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**- Seismic Design Specifications of Road Bridge and its Design Example -**  
 Katsuya Wada, Toru Terayama : Metropolitan Expressway Public Corporation
- H0025, H3  
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 Yasuyuki Koga, Jun-ichi Koseki : PWRI
- H0026, H3  
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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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 Richard H. Ledbetter, W.D.L. Finn, J.S. Nickell, R.E. Wahl, Mary Ellen Hynes : WES
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 Koji Yagi, Shunji Nagamachi : NTT Tsukuba Field Engineering Development Center
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 Kaoru Kusano : Institute of Civil Engineering, Tokyo Metropolitan Government



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Frank I. Gonzales : Pacific Marine Environmental Laboratory, NOAA
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Shin-ichi Iwasaki : NIED
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Gerald T. Heberstreit, M.S. Moustafa : Science Applications International Corporation
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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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Harold G. Loomis : University of Hawaii
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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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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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Masami Okada : MRI

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Emile A. Okal, Jacques Talandier, Dominique Reymond :  
Northwestern University

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**Real-Time Determination of Earthquake  
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Kenji Sakate : University of Michigan

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Eddie N. Bernard : Pacific Marine Environmental  
Laboratory, NOAA



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 Kazuya Ohshima, Koji Kaminaga : PWRI
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 Kazuhiko Kawashima : PWRI
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**Experimental Study of Embankment on Sandy Layers**  
 Tadashi Arakawa : PWRI
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**Dynamic Response Analysis for Seismic Design of Highway Bridges**  
 Ryoji Hagiwara : PWRI
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**Ductility Demand for Bridge Piers**  
 Shigetoshi Kobayashi, Hirotaka Kawano : PWRI
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**Earthquake Resistant Design of Tokyo Bay Crossing Bridge**  
 Shin-ichi Ando, Tomoji Hirukawa : Japan Highway Public Corporation
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**Earthquake Resistance Design of the Meiko Nishi Bridge**  
 Michio Takahashi : Japan Highway Public Corporation
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 Mitsuo Hara : Metropolitan Expressway Public Corporation
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 - Ajigawa Bridge, Hanshin Expressway  
 Susumu Emi, Hiroyuki Nakajima : Hanshin Expressway Public Corporation
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 Kozo Higuchi : Honshu-Shikoku Bridge Authority
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**Future Programs at Concrete Division, PWRI**  
 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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 Tsutomu Kadotani, Hiroshi Yoshida : Japan Highway Public Corporation
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 Hiroyoshi Miyauchi : Metropolitan Expressway Public Corporation
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 James D. Cooper : FHWA
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H.S. Lew : NBS
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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
- J0029, J1  
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- A Brief Overview Concerning their Use  
James Dodson : Nevada Department of Transportation
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Veldo M. Goins : Oklahoma Department of Transportation
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Morihsa Sugiyama : Hanshin Expressway Public Corporation
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 Robert L. Wardlaw, H. Tanaka, S.J. Zan, Michael G. Savage, H. Yamada : National Research Council of Canada
- J0076, J3  
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 Koichi Yokoyama, Hiroshi Sato : PWRI
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<b>Akiyama, Haruki</b>	0084, 0232, 0753, E0005			<b>Barrientos, Celso S.</b>	0272, 0311, 0312, 0324, 0336, 0376, 0426, 0461, 0476, 0594, 0672		
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<b>Anderson, Erik D.</b>	0269, 0306, 0308			<b>Becker, James M.</b>	0003		
<b>Anderson, John G.</b>	J0007			<b>Begg, George B.</b>	0488, 0566		
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<b>Anderson, William A.</b>	0732, 0733			<b>Bennett, Michael J.</b>	0652		
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<b>Aoki, Hirofumi</b>	C0066, C0069, C0079, C0083, C0093, D0002, D0009, D0014, D0031, D0039			<b>Bernard, Eddie N.</b>	0423, 0463, 0488, 0566		
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<b>Arano, Masanobu</b>	0328, 0365, 0410, F0004			<b>Boore, David M.</b>	0082, 0115, 0422, 0532		
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<b>Arima, Takanori</b>	0412, 0421, 0458, C0009, C0042				0214, 0317, 0353, 0402, 0578, 0613, 0663, 0684, 0734, 0761		
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<b>Fukuta, Toshibumi</b>	0262,	0431,	0465,	<b>Hamada, masanori</b>	0365,	F0020	
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<b>Garcia, Andrew</b>	0716			<b>Hasegawa, Kinji</b>	0497,	0547,	0631,
<b>Gates, James H.</b>	0457,	0535,	0622,		0675,	0706,	0731,
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<b>Gaus, Michael P.</b>	0058,	0137,	0269,		0425,	0462	
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<b>11. ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.)</b>  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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