

Programme

SESSION II *

AUCKLAND UNIVERSITY
MONDAY, 25 January
Room "A"

Analysis of Structural Response and Instruments

Chairman; N.M. Newmark (U.S.A.)

Co-Chairman: J. Krishna (India)

G.W. Housner	Session Report
S. Balan, M. Ifrim, C. Pacoste	Direction Determination of Equivalence Coefficients of Masses in the Anti-Seismic Computation of Structures
S. Cherry, A.G. Brady	Determination of Structural Dynamic Properties by Statistical Analysis of Random Vibrations
R.W. Clough, K.L. Benuska, E.L. Wilson	Inelastic Earthquake Response of Tall Buildings
I. Funahashi, K. Kinoshita	The Vibrational Analysis of the Tower Building
H. Goto, K. Toki	Vibrational Characteristics and Aseismic Design of Submerged Bridge Piers
T. Hatano	Vibration of Visco-Elastic Body
S. Hayashi, N. Miyajima, I. Yamashita	Horizontal Resistance of Steel Piles under Static and Dynamic Loads
T. Hisada, K. Nakagawa, M. Izumi	Earthquake Response of Idealized Twenty Story Buildings Having Various Elasto- Plastic Properties

* This programme includes only papers actually presented at the Conference by the author (or his deputy). It does not include accepted papers which were not presented, nor does it include supplementary papers presented during the discussion. For complete details of accepted papers and abstracts for this Theme, please refer to Vol II, pp II-1, "INDEX".

Programme

SESSION II (cont'd)

AUCKLAND UNIVERSITY
TUESDAY, 26 January
Room "A"

Analysis of Structural Response and Instruments

- | | |
|---|--|
| D.E. Hudson | Equivalent Viscous Friction for Hysteretic Systems with Earthquake-like Excitations |
| J. Ibanez | Displacement Spectrum in the Dynamic Response of Inelastic Structures, for Design Purposes |
| P.C. Jennings | Response of Yielding Structures to Statistically Generated Ground Motion |
| K. Kanai | Some New Problems of Seismic Vibrations of a Structure |
| H. Kawasumi, E. Shima | Some Applications of a Correlator to Engineering Problems |
| H. Kobayashi | The Deflection of Tall Building due to Earthquake |
| K. Kubo | Response of a System of Two Degree Freedom |
| J. Penzien, A.K. Chopra | Earthquake Response of Appendage on a Multi-Story Building |
| T. Naka, T. Kato, M. Yuasa-Watabe | Dynamical Analysis of Steel Structure by Electronic Analogy |
| T. Odaka, F. Horie | A Study on the Optimum Value of a Seismic Coefficient |
| M. Ihara, C. Ueda | Horizontal Loading and Vibration Test on 2-Storeyed Reinforced Concrete Structures |
| S. Okamoto, M. Hakuno, K. Kato, F. Kawakami | On the Dynamical Behaviour of an Earth Dam during Earthquake |
| Y. Osawa | Seismic Analysis of Core-Wall Buildings |
| J.M.J. Pereira | Behaviour of an Elasto-Plastic Oscillator Acted by Random Vibration |

Programme

SESSION II (cont'd)

WELLINGTON UNIVERSITY
FRIDAY, 29 January
Room "A"

Analysis of Structural Response and Instruments

- | | |
|--|---|
| M.F. Rubinstein | An Engineering Approach to Computing the Natural Modes and Frequencies of a Tall Building |
| W.E. Saul, J.F. Fleming,
S.L. Lee | Dynamic Analysis of Bilinear Inelastic Multiple Story Shear Buildings |
| R.J. O'Driscoll, R. Shepherd,
J.H. Wood | The Determination of the Normal Mode Properties of Multistory Rectangular Rigid Framed Structures Using an Electrical Analogy |
| R.I. Skinner, D.W.C. Skilton
D.A. Laws | Unbalanced Buildings, and Buildings with Light Towers, under Earthquake Forces |
| T. Shiga | Torsional Vibration of Multi-Storeied Buildings |
| R. Szilard | Dynamic Response of Multi-Level Guyed Towers to Earthquake Considering Non-Linearity of the Elastic Supports |
| H. Tajimi, M. Ohmura
T. Ucaida, K. Akino | Observed Vibrations of a Nuclear Reactor Building during Some Weak Earthquakes |
| S.S. Tezcan | Earthquake Analysis of Space Structures by Digital Computers |
| E. del Valle, J. Prince | Analytical and Experimental Studies of Vibration in Two Buildings |
| A.S. Veletsos, N.M. Newmark,
C.V. Chelapati | Deformation Spectra for Elastic and Elasto-Plastic Systems Subjected to Ground Shock and Earthquake Motions |
| G.R. Walker | Earthquake Resistant Design - The Pulse Method |

Programme

SESSION II (cont'd)

WELLINGTON UNIVERSITY
FRIDAY, 29 January
Room "A"

Analysis of Structural Response and Instruments

S. Watanabe, Y. Kida, M. Higuchi	The Vibrational Analysis of a Steel Structure (The Vibrational Test of Ohbayashi-Gumi Building)
R.K. Wen, J.G. Janssen	Dynamic Analysis of Elasto-Inelastic Frames
S. Yamamoto, N. Suzuki	Experimental and Theoretical Analysis of Response Against Earthquakes of Tower Structures having Non-Uniform Sections Governed by Bending Vibrations
T. Yoshida, K. Baba	Dynamic Response of Dams
G.W. Housner	Summary Report
