

BULLETIN OF EARTHQUAKE RESISTANT STRUCTURE RESEARCH CENTER

NO. 32
MARCH 1999

Contents

Foreword	T. Fujita, Dr. Eng	1
Papers		
Report of the Damage caused by the Mid-North Iwate Earthquake of September 3, 1998 K. Konagai, A. Mikami, T. Katagiri, R. Ahsan and D. Maruyama		3
Relationship between Geomorphological Land Classification and Soil Amplification Ratio Based on JMA Strong Motion Records F. Yamazaki, K. Wakamatsu, J. Onishi and H. Yamauchi		17
Estimation of Strong Ground Motion in the 1995 Kobe Earthquake based on Building Damage Data N. Yamaguchi and F. Yamazaki		35
Liquefaction Tests of Toyoura Sand Measuring Change of Quasi-elastic Deformation Properties J. Koseki, S. Kawakami, H. Nagayama, T. Sato, K. Hayano and M. Torimitsu		47
Sub-structuring Pseudo-dynamic Tests on a Combination of Semi-rigid Steel Frame and Hysteretic Damper K. Ohi, S.J.Lee, Y. Shimawaki and H. Kondo		61
Substructuring Pseudo-dynamic Simulations on Real Inelastic Responses of Steel Braced Frame Monitored during Moderate Earthquakes S.J.Lee, K. Ohi, Y. Shimawaki and H. Kondo		67
Dynamic Behavior of Large Suspended Facilities in Large Enclosures R. Furukawa and K. Kawaguchi		77
INCEDE : At the End of a Decade -Summarizing its 8-year activities- K. Sudo, S. Herath, K. Meguro and D. Dutta		89
Applied Element Simulation for Collapse Analysis of Structures H. T. Din and K. Meguro		113
Simulation of Buckling and Post-Buckling Behavior of Structures Using Applied Element Method K. Meguro and H. T. Din		125
Urban Space Design and Safety Evaluation from the Viewpoint of Evacuation Behavior of Users K. Meguro and M. Harada		137
Obituary		145
List of Papers by Members of Earthquake Resistant Structure Research Center		147
News		157
Meetings of Earthquake Resistant Structure Research Center		163

INSTITUTE OF INDUSTRIAL SCIENCE
UNIVERSITY OF TOKYO

