## Contents

Damage and Response Analyses for Buildings During the 1999 Chi-Chi Taiwan Earthquake
Shyh-Jiann HWANG and H. J. LEE Flexural Shear Strength and Deformation Models for Reinforced Concrete Columns
Sung-Gul HONG and Soo-Gon LEE
Damage Evaluation of Reinforced Concrete Columns under Multiaxial Cyclic Loadings
Susumu KONO and Fumio WATANABE
Cyclic Inelastic Strut-Tie Modeling of Shear-Critical R.C. Members51 Jang-Hoon KIM and John B. MANDER
A Shear Transfer Model for High Strength Concrete Interface with Dowel Reinforcement
and Shear Keys
Performance of Pile Foundations During the Hyogoken-Nambu Earthquake and its Implications for Design Practice
Madan Bahadur KARKEE
Seismic Behavior Evaluation of Unreinforced Masonry Structure Considering Soil-
Structure Interaction
Effects of Nonlinear Characteristics of a Soft Soil Layer on the Horizontal Seismic Responses of Buildings

Buckling Behavior of Tube Braces with Concentric Through-Gusset Connection 121 Motohide TADA, Yutaka NISHI and Yoshikatsu YAMADA

Plastic Rotation Capacity of Post-Northridge and Post-Kobe Beam-to-Column
Connections
Keiichiro SUITA, Masayoshi NAKASHIMA and Michael. D. ENGELHARDT

Experimental Investigation of Reduced Beam Section Connections with Web Op	enings
	151
Jong-Won Park	

An Experimental Study on Fracture Behavior of Welded Beam-to-Column Joint with
Defects
Takahiko SUZUKI, Koji MORITA and Koichi TAKANASHI

Earthquake Simulation Tests of a 1:5 Scale 3-Story Masonry-Infilled Reinforced
Concrete Frame
Han-Seon LEE and Sung-Woo WOO

Free Vibration and Pseudodynamic Tests for Base Isolated Real Size Steel Frame 181

Dae-Kon KIM and Sang-Hoon LEE

Seismic Response Behavior of Steel Moment Resisting Frames Having Exposed-type
Column Base
Takashi HASEGAWA

An Efficient Model for Seismic Analysis of High-rise Building Structures with the Effects
of Floor Slabs
Dong-Guen LEE and Hyun-Su KIM

Optimum Stiffness Ratio of Unbond Brace Hysteretic Dampers
Performance Evaluation of Columns in Ordinary Moment Concrete Frames (OMF)
Sang-Whan HAN, Hyuk-Sang YU and Li-Hyung LEE
Experimental Study of Robust Control for Buildings under Earthquake Excitation
Kyung-Won MIN, Sung-Choon KIM, Seong-Ho HWANG and Jin-Wook JOUNG
Seismic Design for Prefabricated and Prestressed Concrete Moment Resisting Frames
Tunto WATANADE