

Table of Contents

EXPERIMENTAL INVESTIGATIONS OF THE LATERAL FORCE STRENGTHENING FOR LOW-RISE SOFT STORY	1
<i>Sang-Hoon SEO, Youn-Jong YOO, Hee-Cheul KIM, Young-Hak LEE, Han-Seon LEE, and Ki-hak LEE</i>	
SEISMIC MOTION-DAMAGE RELATIONSHIP BY USING DAMAGE DATA OF SCHOOL BUILDINGS IN TAIWAN	8
<i>Yi-Hsuan TU, Pei-Lin YEH, Tzu-Wei LIU, and Wen-Yu JEAN</i>	
ANALYTICAL SIMULATION OF SHAKE-TABLE RESPONSES OF A TORSIONALLY-ECCENTRIC PILOTI-TYPE HIGH-RISE RC BUILDING MODEL	17
<i>Han-Seon LEE, Jeong-Jae LEE, and Dong-Wook JUNG</i>	
IN-SITU TESTS OF RC SCHOOL BUILDINGS IN TAIWAN FOR SEISMIC RESISTANCE	29
<i>Shyh-Jiann HWANG, Lap-Loi CHUNG, Yeong-Kae YEH, Wen-Yu JEAN, and Wen-Cheng SHEN</i>	
DISPLACEMENT-BASED SEISMIC DESIGN FOR PLAN-ASYMMETRIC WALL SYSTEMS	36
<i>Sung-Gul HONG and Tae-Hyu HA</i>	
EXPERIMENT OF ENHANCING SEISMIC ISOLATION SYSTEMS IN NEAR-FAULT AREAS BY USING MAXWELL-TYPE VISCOUS DAMPER	49
<i>Lyan-Ywan LU, Ming-Hsiang SHIH, Ging-Long LIN, and Shih-Wei YEH</i>	
CYCLIC LOADING TEST OF FRICTION-TYPE REINFORCING MEMBERS UPGRADING WIND-RESISTANT PERFORMANCE OF TRANSMISSION TOWERS	58
<i>Ji-Hun PARK, Byoung-Wook MOON, Kyung-Won MIN, and Sung-Kyung LEE</i>	
USING AN EQUIVALENT FIXED BASE MODEL TO INVESTIGATE THE EFFECTS OF SOIL-STRUCTURE INTERACTION	71
<i>Cheng-Hsing CHEN and Shang-Yi HSU</i>	
STRUCTURAL SYSTEM ENABLING PROMPT RECOVERY AFTER EARTHQUAKES	81
<i>Yukako ICHIOKA, Susumu KONO, and Fumio WATANABE</i>	
MODAL PARTICIPATION FACTOR ESTIMATION BASED ON VIBRATION TEST	89
<i>Hong-Jin KIM, Je-Woo Park, and Jae-Seung HWANG</i>	
SECANT STIFFNESS ANALYSIS METHOD FOR EARTHQUAKE DESIGN OF REINFORCED CONCRETE STRUCTURES	106
<i>Hong-Gun PARK, Chang-Soo KIM, and Tae-Sung EOM</i>	

APPLICATION OF ON-LINE RECURSIVE LEAST-SQUARES METHOD ON PARAMETER IDENTIFICATION OF STRUCTURES SUBJECTED TO EARTHQUAKE EXCITATIONS	115
<i>Shih-Yu CHU and Shih-Chieh LO</i>	
AN EFFICIENT ANALYTICAL MODEL FOR DYNAMIC ANALYSIS OF TWO HIGH-RISE BUILDING STRUCTURES CONNECTED BY A SKY-BRIDGE	124
<i>Dong-Guen LEE, Ah-Ram YANG, Hyun-Su KIM, and Hyun KO</i>	
RESPONSE OF STEEL MOMENT FRAMES TO NEAR-FAULT HORIZONTAL AND VERTICAL EARTHQUAKE GROUND MOTIONS	138
<i>Heui-Yung CHANG, Bo-Cheng LIN, Chih-Ho LIN, and Ker-Chun LIN</i>	
MACRO MODEL SIMULATING THE SEISMIC FORCE RESISTING MECHANISM OF MULTI-STORY SHEARWALLS SUPPORTED BY PILES	145
<i>Masanobu SAKASHITA, Fumio WATANABE, Susumu KONO, and Hitoshi TANAKA</i>	
CYCLIC TESTING OF BRACKET AND WUF-B TYPE WEAK-AXIS STEEL MOMENT CONNECTION	154
<i>Kang-Min LEE, Hee-Taek JEONG, Seok-Ryong YOON, Eun-Mo LEE, and Kyung-Hwan OH</i>	
EXPERIMENTAL STUDY ON SEISMIC BEHAVIOR OF INTERIOR CES BEAM-COLUMN JOINTS	163
<i>Tomoya MATSUI and Hiroshi KURAMOTO</i>	
BASIC EXPERIMENTS FOR DEVELOPING TUBULAR DAMPERS APPLIED TO BOLT JOINTS	171
<i>Seiji MUKAIDE, Takuya ASAMITSU, Motohide TADA, and Isao KOHZU</i>	
SEISMIC DESIGN OF THE VERTICAL BOUNDARY ELEMENT IN STEEL PLATE SHEAR WALLS	178
<i>Chao-Hsien LI, Chih-Han LIN, Pei-Ching CHEN, and Keh-Chyuan TSAI</i>	
A PLASTIC HINGE MODEL FOR NONLINEAR DYNAMIC PROGRESSIVE COLLAPSE ANALYSIS OF WELDED STEEL MOMENT FRAMES	188
<i>Cheol-Ho LEE, Seon-Woong KIM, and Kyung-Koo LEE</i>	
SEISMIC BEHAVIOR OF HYBRID SYSTEM WITH CORRUGATED STEEL SHEAR PANEL AND RC FRAME	199
<i>Masato DOI, Yukako ICHIOKA, Yoshihiro OHTA, Susumu KONO, and Fumio WATANABE</i>	

MINIMUM AND MAXIMUM SHEAR REINFORCEMENT OF REINFORCEMENT CONCRETE BEAMS	208
<i>Jung-Yoon LEE and Hyun-Bok HWANG</i>	
EFFECT OF ANCHORAGE PERFORMANCE OF BEAM BARS WITHIN BEAM-COLUMN JOINTS AND JOINT SHEAR LEVELS ON RESTORING FORCE CHARACTERISTICS IN REINFORCED CONCRETE FRAMES	217
<i>Masaru TERAOKA</i>	
EXPERIMENTAL STUDY OF STEEL REINFORCED CONCRETE BEAMS WITH WEB OPENINGS	227
<i>Cheng-Chih CHEN, Chung-Yan LI, and Ming-Chang KUO</i>	
FULL-SCALE HIGH-STRENGTH CONCRETE TIED COLUMNS UNDER CONCENTRIC COMPRESSION	234
<i>Rong-Jing WANG, Hung-Jen LEE, Cheng-Cheng CHEN, Chi-Chun TAO, and Chia-Wei CHEN</i>	
EXPERIMENTAL DETECTION OF A MECHANICAL WEAK POINT IN CONCRETE WALL STRUCTURES	243
<i>Yasushi SANADA, Botirjon YORKINOV, and Taizo HIROSE</i>	
DESIGN EQUATIONS FOR FLEXURAL STRENGTH OF PRESTRESSED CONCRETE BEAMS BASED ON FLEXURAL DEFORMATION	251
<i>Ichizo KISHIMOTO and Yusuke SHIBATA</i>	
SEISMIC BEHAVIOR OF A 3D PRECAST/POST-TENSIONED REINFORCED CONCRETE SUB-STRUCTURE UNDER BI-AXIAL LOADS	259
<i>C. T. CHENG, H. H. CHEN, K.C. LIN, P. C CHEN, and S.J. JHUANG</i>	
EXPERIMENTAL STUDY ON MECHANICAL PROPERTIES OF PRESTRESSED CONCRETE BEAMS AT ELEVATED TEMPERATURE	269
<i>Seong-Jun IM, Minehiro NISHIYAMA, and Masanori TANI</i>	
ULTIMATE FLEXURAL STRENGTH EVALUATION FOR PRESTRESSED CONCRETE COLUMNS	277
<i>Masanori TANI, Minehiro NISHIYAMA, and Jaeman LEE</i>	

Appendix

Contents of past proceedings