PAPERS

DEVELOPMENT OF A HYBRID FRP-CONCRETE BRIDGE SUPERSTRUCTURE SYSTEM
Amjad J. Aref and Wael Alnahhal

SOME ADVANCES IN SOIL DYNAMICS AT IEM
Xiaoming Yuan, Zhenzhong Cao, Rui Sun, Fanchao Meng and Yurun Li

LIQUEFACTION AND REMEDIATION OF SILTY SOILS
Sabanayagam Thevanayagam

VIRTUAL FORCE CONTROL METHOD FOR REAL-TIME HYBRID SIMULATION WITH IMPLICIT INTEGRATION ALGORITHMS
Bin Wu, Qianying Wang and Jinping Ou

AN APPROACH FOR EARTHQUAKE DAMAGE PREDICTION OF BUILDING STOCK BASED ON EXISTING VULNERABILITY MATRICES
Baitao Sun and Shaoqing Hu

EFFECTS OF EXPERIMENTAL ERRORS ON THE ACCURACY OF HYBRID SIMULATIONS
Gilberto Mosqueda

STRUCTURAL RESPONSE UNDER PULSE-DOMINANT EXCITATIONS
Junwu Dai, Mai Tong, George C. Lee, Xiaozhai Qi and Wenting Bai

SEISMIC RELIABILITY ANALYSIS OF MULTI-STORY ISOLATED BRICK BUILDINGS
Lingxin Zhang, Minzheng Zhang, Jinren Jiang and Jieping Liu

RECENT RESEARCH ON SEISMIC PERFORMANCE OF PRECAST CONCRETE SEGMENTAL BRIDGE PIERS
Feng Liu, Ji-Ping Ge, Hong-Yi Wei and Zhi-Qiang Wang

SEISMIC PERFORMANCE OF BUCKLING-RESTRAINED BRACED FRAMES
Larry Fahnestock, James M. Ricles and Richard Sause

REAL TIME GROUND MOTION GENERATION CONSIDERING LOCAL SOIL CONDITION
Ruizhi Wen, Zhenghua Zhou and Yefei Ren

EFFECT OF LIQUEFACTION ON SURFACE GROUND MOTION
Rui Sun and Xiaoming Yuan
COLLABORATION IN EMERGENCY PREPAREDNESS FOR AMERICA’S PUBLIC SCHOOLS
Scott E. Robinson

A STUDY ON STEEL BUILDINGS SUBJECTED TO EARTHQUAKE AND THE FOLLOWING FIRE
Suwen Chen, George C. Lee and Guoqiang Li

SIMPLIFIED LIQUEFACTION ANALYSIS OF LEVEL AND SLOPING GROUND
Scott M. Olson

MAGNETOSTRICTIVE MATERIALS AND VIBRATION CONTROL
Xinchun Guan and Jinping Ou

ELECTROMAGNETIC-DRIVING AND ENERGY-RECYCLING HYBRID MASS DAMPER SYSTEM FOR STRUCTURAL VIBRATION CONTROL
Chunwei Zhang and Jinping Ou

CONTROL OF CIVIL STRUCTURES USING SEMI-ACTIVE STIFFNESS SYSTEM BASED ON VARIABLE AMPLIFICATION
Kenneth Walsh, Makola M. Abdullah and Carl A. Moore

GENERAL STUDY OF STRENGTHENING TECHNIQUE WITH COMPOSITE COVER OF HIGH STRENGTH WIRE CABLE MESH AND POLYMER MORTAR
Qiulai Yao

COMPLEX MODE ANALYSIS METHOD OF EARTHQUAKE RESPONSE FOR NON-CLASSICALLY DAMPED LARGE LINEAR MDOF SYSTEM
Ruifang Yu and Xiyuan Zhou

THE FEATURES OF LONG-PERIOD SPECTRUM OF SMART-1 ARRAY RECORDS
Haiying Yu and Yongnian Zhou

OPTIMAL SENSOR PLACEMENT AND DAMAGE DETECTION RESEARCH ON SPACE STRUCTURE
Hao-xiang He and Wei-ming Yan

A COLLABORATIVE VIRTUAL SIMULATION SYSTEM BASED ON HLA FOR EMERGENCY RESCUE TRAINING
Dongming Wang and Xin Chen