



JOURNAL OF Engineering Mechanics

DECEMBER 2018 • VOLUME 144 • ISSUE 12

Contents

PUBLICATIONS

Bruce Gossett, *Managing Director and Publisher*

JOURNALS DEPARTMENT

Angela Cochran,
Associate Publisher

Dana Compton,
Editorial Director

Kelly Anderson,
Executive Editor

Holly Koppel,
Senior Managing Editor

Jennifer Chapman,
Managing Editor

Elizabeth Guertin,
Manager, Journals Systems Administrator

Taryn Dollings,
Senior Editorial Coordinator

Candice G. Eccles,
Senior Editorial Coordinator

Laurie Hertneky,
Senior Coordinator, Publications

PRODUCTION DEPARTMENT

Heather DiAngelis,
Manager

Patricia Jones Kershaw,
Assistant Manager

Katie Thacher,
Senior Production Editor

Laura M. Ansley,
Production Editor

Michele Esposito,
Production Editor

DeAndréa Johnson,
Production Editor

TECHNICAL PAPERS

Damage Assessment Using Modeling of Large-Scale Confined Masonry Building
Cuahtemoc Escudero, Sergio Oller, Xavier Martinez, Alex Barbat, and Cesar Dávalos 04018107

Generalized Plasticity Model for Sand with Enhanced State Parameters
W. J. Cen, J. R. Luo, E. Bauer, and W. D. Zhang 04018108

Mem-Spring Models Combined with Hybrid Dynamical System Approach to Represent Material Behavior
Jin-Song Pei 04018109

Atomistic Simulation of Mechanical Properties of Au₃₂ Cluster Peapod Structures: Molecular Dynamics and Density Functional Theory
M. Latimi, M. Ghorbanzadeh Ahangari, and M. Jahanshahi 04018110

Low-Submergence Effect on Incipient Sediment Motion
Nian-Sheng Cheng, Hongwu Tang, and Jing Yan 04018111

Bending Behavior of Axially Preloaded Multilayered Spiral Strands
Sajjad Wali Khan, Bora Gencturk, Khan Shahzada, and Asmat Ullah 04018112

Effective Incremental Ground Velocity for Estimating the Peak Sliding Displacement of Rigid Structures to Pulse-Like Earthquake Ground Motions
E. Jampole, E. Miranda, and G. Deierlein 04018113

TECHNICAL NOTES

Performance of Geosynthetic-Reinforced and Pile-Supported Embankment with Consideration of Soil Arching
Ling Zhang, Shuai Zhou, Heng Zhao, and Yun Deng 06018005

CORRECTIONS

Erratum for "Constitutive Modeling of Anisotropic Sand Behavior in Monotonic and Cyclic Loading" by Zhiwei Gao and Jidong Zhao
Zhiwei Gao and Jidong Zhao 08218004

REVIEWERS

Reviewers 09018001

PUBLISHING OFFICE

Journals Department
ASCE
1801 Alexander Bell Drive
Reston, VA 20191-4382
Telephone: (703) 295-6290
Email: journal-services@asce.org