



JOURNAL OF Engineering Mechanics

JANUARY 2018 • VOLUME 144 • ISSUE 1

Contents

PUBLICATIONS

Bruce Gossett, *Managing Director and Publisher*

JOURNALS DEPARTMENT

Angela Cochran,
Associate Publisher

Kelly Anderson,
Managing Editor

Holly Koppel,
Managing Editor

Elizabeth Guertin,
Manager, Journals Systems Administrator

Jennifer Chapman,
Assistant Managing Editor

Candice G. Eccles,
Sr. Editorial Coordinator

Taryn Dollings,
Editorial Coordinator

Laurie Hertneky,
Sr. Coordinator, Publications

PRODUCTION DEPARTMENT

Matt Boyle,
Director

Michael Gentry,
Workflow Manager

Rajashree Ranganathan,
Senior Manager

Heather DiAngelis,
Assistant Manager

Patricia Jones Kershaw,
Senior Production Editor

Laura M. Ansley,
Production Editor

DeAndréa Johnson,
Production Editor

Katie Thacher,
Production Editor

Xi Van Fleet, *Senior Manager, Information Services*

TECHNICAL PAPERS

Simulation of Spatially Varying Non-Gaussian and Nonstationary Seismic Ground Motions by the Spectral Representation Method 04017143
Yongxin Wu, Yufeng Gao, Ning Zhang, and Fei Zhang

Effects of Environmental Conditioning on the Bond Behavior of FRP and FRCM Systems Applied to Concrete Elements 04017144
Francesca Ceroni, Antonio Bonati, Vittorio Galimberti, and Antonio Occhiuzzi

Generalized Variational Principles for Solutions of Statically Indeterminate Trusses under Mechanical-Thermal-Assembly Loadings 04017145
Zou-Qing Tan, Xue-Dong Jiang, Yun-Song He, Shu-Hao Ban, Ran Xu, and Ren-Qiang Xi

General Mean Velocity Distribution Law for Smooth-Wall Plane Couette Flow 04017146
Junke Guo

Numerical Investigation of Solitary Wave Interaction with Double Row of Vertical Slotted Piles 04017147
Yu Yao, Zhengjiang Tang, Fang He, and Wancheng Yuan

Direct Shear Testing Study of the Interface Behavior between Steel Plate and Compacted Completely Decomposed Granite under Different Vertical Stresses and Suctions 04017148
L. Borana, Jian-Hua Yin, D. N. Singh, S. K. Shukla, and F. Tong

Beam Element with a 3D Response for Shear Effects 04017149
Mauro Schulz

Effects of Engesser's and Haringx's Hypotheses on Buckling of Timoshenko and Higher-Order Shear-Deformable Columns 04017150
Xian-Fang Li and Kang Yong Lee

Lifecycle Simulation for Unbonded Concrete Overlay Design 04017151
Minmao Liao and Hanyue Xu

Analytical Solutions to the Axisymmetrical Consolidation of Unsaturated Soils 04017152
Wan-Huan Zhou, Lin-Shuang Zhao, Thomas Man-Hoi Lok, Guo-xiong Mei, and Xiao-Bo Li

Deformation Gradient-Based Remedy for Mesh Objective Three-Dimensional Interlocking Mechanism 04017153
In Ho Cho

Simulation of Stochastic Processes by Sinc Basis Functions and Application in TELM Analysis 04017154
Marco Broccardo and Armen Der Kiureghian

Static and Dynamic Behaviors of Microstructured Membranes within Nonlocal Mechanics 04017155
B. Hérissou, N. Challamel, V. Picandet, A. Perrot, and C. M. Wang

Numerical Simulation of Thermal Cracking in Rocks Based on General Particle Dynamics 04017156
X. P. Zhou and J. Bi

Probability Density Evolution of a Nonlinear Concrete Gravity Dam Subjected to Nonstationary Seismic Ground Motion 04017157
Zhangjun Liu, Zixin Liu, and Denghong Chen

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

PUBLISHING OFFICE

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



JOURNAL OF
Engineering Mechanics

JANUARY 2018 • VOLUME 144 • ISSUE 1

TECHNICAL NOTES

Exact Solution for Depth of Impact Crater into Granular Bed

06017018

Junke Guo

REVIEWERS

Reviewers

09017001

PUBLISHING OFFICE
Journal Department
ASCE
1801 Alexander Bell Drive
Reston, VA 20191-4398
Telephone (703) 295-6200
E-mail: journal-services@asce.org

