

JOURNAL OF

Engineering Mechanics

JULY 2016 · VOLUME 142 · ISSUE 7

Contents

PUBLICATIONS

Bruce Gossett, Managing Director and Publisher

JOURNALS DEPARTMENT

Angela Cochran, Director, Journals

Kelly Anderson, Managing Editor, Journals

Holly Koppel, Managing Editor, Journals

Elizabeth Guertin, Publishing Manager, Journals

Jennifer Chapman, Senior Editorial Coordinator

Candice G. Eccles, Editorial

Laurie Hertneky, Publications Coordinator

PRODUCTION DEPARTMENT

Matt Boyle, Director, Publications Production

Michael Gentry, Production Workflow Manager

Rajashree Ranganathan, Manager, Journals Production

Heather DiAngelis, Senior Production Editor

Katie Fluke, Production Editor

DeAndréa Johnson, Production Editor

Patricia Jones Kershaw, Production Editor

Hannah Patterson, Production Editor

Xi Van Fleet, Senior Manager, Information Services

TECHNICAL PAPERS

Analytical Study of Transient Coupling between Vessel Motion and Liquid Sloshing in Multiple Tanks

Chongwei Zhang

04016034

04016035

04016036

04016037

04016038

04016039

04016040

04016041

04016042

04016043

04016044

06016003

Upper-Bound Solution for Flat Cavity Expansion Model Hanlong Liu, Hang Zhou, and Gangqiang Kong

Transverse Vibrations of Viscoelastic Sandwich Beams via Galerkin-Based State-Space Approach

Alessandro Palmeri and Evangelos Ntotsios

Buckling of Nonlocal Columns with Allowance for Selfweight C. M. Wang, H. Zhang, N. Challamel, and Y. Xiang

Model for Flexural Strength Calculation of Corroded RC Beams Considering Bond-Slip Behavior

Xuhui Zhang, Lei Wang, Jianren Zhang, and Yongming Liu

A Gradient Inelastic Flexibility-Based Frame Element Formulation Petros Sideris and Mohammad Salehi

Fracture Mechanisms of Rock-Concrete Interface: Experimental and Numerical Wei Dong, Zhimin Wu, and Xiangming Zhou

Estimation Method of Loss Coefficient for Wind-Induced Internal Pressure Fluctuations Haiwei Xu, Shice Yu, and Wenjuan Lou

Accumulated Pore Pressures around Submarine Pipeline Buried in Trench Layer with Partial Backfills

H. Y. Zhao and D.-S. Jeng

Critical Time-Step Estimation for Explicit Integration of Dynamic Higher-Order Finite-Element Formulations

Luis A. de Béjar and Kent T. Danielson

Viscoelastic Nonlinear Multilayered Model for Asphalt Pavements Sudhir Varma and M. Emin Kutay

TECHNICAL NOTES

Tsunami Waveforms and Runup of Undular Bores in Coastal Waters Xi Zhao, Hua Liu, and Benlong Wang



PUBLISHING OFFICE

Telephone: (703) 295-6290 E-mail: journal-services@asce.org