July 2012

Volume 138, Issue 7, pp. 721-913

SELECTED: | Export Citations | Show/Hide Abstracts | Add to MyArticles | Email 0 View Select All

TECHNICAL PAPERS

TOP 1

Exact Elementary Green's Functions and Integral Formulas in Thermoelasticity for a Half-Wedge

Victor Seremet

J. Eng. Mech. 138(7), 721-737 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000382

Online Publication Date: 15 Jun 2012

Abstract | Full Text HTML | References | PDF (334 KB) | Permissions

+ Show Abstract

Modeling Strain-Rate Dependent Behavior of KR₀ -Consolidated Soft

Li-Zhong Wang, Han-Bo Dan, and Ling-Ling Li

J. Eng. Mech. 138(7), 738-748 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000371

| Cited 6 times

Online Publication Date: 10 Dec 2011

Abstract | Full Text HTML | References | PDF (658 KB) | Erratum | Permissions

+ Show Abstract

Plastic Input Motion: Transformation for the Response of Yielding **Oscillators**

Elia Voyagaki, George Mylonakis, and Ioannis N. Psycharis

J. Eng. Mech. 138(7), 749-760 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000373

Online Publication Date: 12 Dec 2011

Abstract | Full Text HTML | References | PDF (1123 KB) | Permissions

+ Show Abstract

Dynamic Responses of a Structure with Periodic Foundations

Jing Bao, Zhifei Shi, and Hongjun Xiang

J. Eng. Mech. 138(7), 761-769 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000383

| Cited 4 times

Online Publication Date: 14 Dec 2011

Abstract | Full Text HTML | References | PDF (1182 KB) | Permissions

+ Show Abstract

Stress Response of a Rubber Block under Vertical Loading

Jong Beom Suh and S. Graham Kelly

J. Eng. Mech. 138(7), 770-783 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000390

| Cited 2 times

Online Publication Date: 20 Dec 2011

Abstract | Full Text HTML | References | PDF (1283 KB) | Permissions

Physical Mechanism of Ice-Induced Self-Excited Vibration

Qianjin Yue and Fengwei Guo

J. Eng. Mech. 138(7), 784-790 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000378

Online Publication Date: 14 Dec 2011

Abstract | Full Text HTML | References | PDF (675 KB) | Permissions

+ Show Abstract

Multiscale Stochastic Modeling of the Elastic Properties of Strand-Based **Wood Composites**

T. Gereke, S. Malekmohammadi, C. Nadot-Martin, C. Dai, F. Ellyin, and R.

J. Eng. Mech. 138(7), 791-799 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000381

| Cited 1 time

Online Publication Date: 15 Jun 2012

Abstract | Full Text HTML | References | PDF (937 KB) | Permissions

+ Show Abstract

Fast Bayesian Ambient Modal Identification Incorporating Multiple Setups

S. K. Au and F. L. Zhang

J. Eng. Mech. 138(7), 800-815 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000385

| Cited 5 times

Online Publication Date: 15 Jun 2012

Abstract | Full Text HTML | References | PDF (801 KB) | Permissions

+ Show Abstract

Random Vibration Analysis of Dynamic Vehicle-Bridge Interaction Due to **Road Unevenness**

Geert Lombaert and Joel P. Conte

J. Eng. Mech. 138(7), 816-825 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000386

| Cited 2 times

Online Publication Date: 16 Dec 2011

Abstract | Full Text HTML | References | PDF (393 KB) | Permissions

+ Show Abstract

Lattice Discrete Particle Model for Fiber-Reinforced Concrete. I: Theory

Edward A. Schauffert and Gianluca Cusatis

J. Eng. Mech. 138(7), 826-833 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000387

I Cited 11 times

Online Publication Date: 16 Dec 2011

Abstract | Full Text HTML | References | PDF (747 KB) | Permissions

+ Show Abstract

Lattice Discrete Particle Model for Fiber-Reinforced Concrete. II: Tensile Fracture and Multiaxial Loading Behavior

Edward A. Schauffert, Gianluca Cusatis, Daniele Pelessone, James L.

O'Daniel, and James T. Baylot

J. Eng. Mech. 138(7), 834-841 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000392

| Cited 9 times

Online Publication Date: 20 Dec 2011

Abstract | Full Text HTML | References | PDF (694 KB) | Permissions

Inelastic Deformation of Extended Pile-Shafts

Y. H. Chai and Shin-Tai Song

J. Eng. Mech. 138(7), 842-852 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000393

Online Publication Date: 20 Dec 2011

Abstract | Full Text HTML | References | PDF (1331 KB) | Permissions

+ Show Abstract

Extended UH Model: Three-Dimensional Unified Hardening Model for Anisotropic Clays

Yang-Ping Yao and Yu-Xia Kong

J. Eng. Mech. 138(7), 853-866 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000397

| Cited 5 times

Online Publication Date: 23 Dec 2011

Abstract | Full Text HTML | References | PDF (1316 KB) | Permissions

+ Show Abstract

Substructure Hybrid Simulation with Multiple-Support Excitation

Jian Li, Billie F. Spencer Jr., Amr S. Elnashai, and Brian M. Phillips

J. Eng. Mech. 138(7), 867-876 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000394

| Cited 2 times

Online Publication Date: 20 Dec 2011

Abstract | Full Text HTML | References | PDF (1815 KB) | Permissions

+ Show Abstract

Pullout Capacity of Headed Anchors in Prestressed Concrete

R. Piccinin, R. Ballarini, and S. Cattaneo

J. Eng. Mech. 138(7), 877-887 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000395

Online Publication Date: 23 Dec 2011

Abstract | Full Text HTML | References | PDF (1476 KB) | Permissions

+ Show Abstract

Computation of Probability Distribution of Strength of Quasibrittle **Structures Failing at Macrocrack Initiation**

Jia-Liang Le, Jan Eliáš, and Zdeněk P. Bažant

J. Eng. Mech. 138(7), 888-899 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000396

| Cited 5 times

Online Publication Date: 23 Dec 2011

Abstract | Full Text HTML | References | PDF (1557 KB) | Permissions

+ Show Abstract

CASE STUDIES

TOP 1

Shake Table Testing of a Utility-Scale Wind Turbine

lan Prowell, Chia-Ming Uang, Ahmed Elgamal, J. Enrique Luco, and Lanhui

J. Eng. Mech. 138(7), 900-909 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000391

| Cited 4 times

Online Publication Date: 20 Dec 2011

Abstract | Full Text HTML | References | PDF (1430 KB) | Permissions

TECHNICAL NOTES

Some Aspects when Applying Continuous Assumed Gradient Methods to **Explicit Dynamics**

Sebastian Wolff and Christian Bucher

J. Eng. Mech. 138(7), 910-913 (2012);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000389

| Cited 1 time

Online Publication Date: 20 Dec 2011

Abstract | Full Text HTML | References | PDF (2464 KB) | Permissions