

Board Publications Committee

Marc I. Hoit, Ph.D., A.M.ASCE, Chair D. V. Griffiths, P.E., F.ASCE Jon A. Schmidt, P.E., M.ASCE Daniel L. Thomas, Ph.D., P.E., D.WRE, F.ASCE

Kevin Womack, Ph.D., P.E., F.ASCE Bruce Gossett, Aff.M.ASCE, ASCE Staff Contact

Publications

Bruce Gossett, Managing Director and Publisher

Journals Department

Melissa Junior, Director, Journals Kelly Anderson, Publishing Manager, Journals

Holly Koppel, Managing Editor, Journals Elizabeth Guertin, Publishing Manager, Journals

Jennifer Parresol, Editorial Coordinator, Journals

Production Department

Angela Cochran, Director, Publications Production

Shaun Halloran, Manager, Journals Production

Rajashree Ranganathan, Assistant Production Manager

Nancy Green, Senior Production Editor Julie Kimmel, Production Editor Xi Van Fleet, Manager, Information Services Donna Dickert, Reprints

Publishing Office

Journals Department ASCE 1801 Alexander Bell Drive Reston, VA 20191-4400 Telephone: (703) 295-6290 E-mail: journal-services@asce.org

Journal of Engineering Mechanics

VOLUME 137 / NUMBER 4

APRIL 2011

т	ec	hn	ical	P	an	P	rs
			Level)		αp	-	-0

- 227 Load Transfer and Recovery Length in Parallel Wires of Suspension Bridge Cables Haim Waisman, Arturo Montoya, Raimondo Betti, and I. C. Noyan
- 238 Nonlinear Quasi-Viscoelastic Behavior of Composite Beams Curved In-Plan R. Emre Erkmen and Mark A. Bradford
- 248 Response Surface–Based Finite-Element-Model Updating Using Structural Static Responses

 Wei-Xin Ren, Sheng-En Fang, and Miao-Yi Deng
- 258 Finite-Difference Solution of a Both-End-Fixed Orthotropic Composite Beam under Uniformly Distributed Loading Using Displacement Potential Function Formulation S. K. Deb Nath and C. H. Wong
- Testing of Cementitious Materials under High-Strain-Rate Tensile Loading Using Elastic Strain Energy Dong Joo Kim, Kay Wille, Sherif El-Tawil, and Antoine E. Naaman
- 276 Three-Dimensional Elastic Catenary Cable Element Considering Sliding Effect Kwang Sup Chung, Jae-Yeol Cho, Jung Il Park, and Sung-Pil Chang
- 284 To Scale or Not to Scale Seismic Ground-Acceleration Records Mircea Grigoriu
- 294 Discrete-Element Modeling: Impacts of Aggregate Sphericity, Orientation, and Angularity on Creep Stiffness of Idealized Asphalt Mixtures Yu Liu and Zhanping You

Discussions and Closures

- 304 Discussion of "Mechanism behind the Size Effect Phenomenon" by Xiaozhi Hu and Kai Duan Miroslav Vořechovský
- 304 Closure by Xiaozhi Hu

Errata

306 Erratum for "Equilibrium-Based Finite-Element Formulation for the Geometrically Exact Analysis of Planar Framed Structures" by H. A. F. A. Santos and J. P. Moitinho de Almeida H. A. F. A. Santos and J. P. Moitinho de Almeida