August 2013

Volume 139, Issue 8, pp. 933-1148

SELECTED: | Export Citations | Show/Hide Abstracts | Add to MyArticles | Email 0 View Select All SPECIAL ISSUE EDITORS: PIZHONG QIAO AND NOËL CHALLAMEL TOP 1 **Special Issue on Stability of Composite Structures** Pizhong Qiao and Noël Challamel J. Eng. Mech. 139(8), 933-935 (2013); http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000552 Online Publication Date: 15 Jul 2013 Citation | Full Text HTML | PDF (50 KB) | Permissions **TECHNICAL PAPERS** Local Buckling Analysis of Restrained Orthotropic Plates under Generic **In-Plane Loading** Pizhong Qiao, Fangliang Chen, Jifeng Xu, and Zizi Lu J. Eng. Mech. 139(8), 936-951 (2013); http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000551 Online Publication Date: 22 Sep 2012 Abstract | Full Text HTML | References | PDF (2034 KB) | Permissions + Show Abstract Modeling of Interactive Buckling in Sandwich Struts with Functionally Stylianos Yiatros, M. Ahmer Wadee, and Christina Völlmecke J. Eng. Mech. 139(8), 952-960 (2013); http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000470 | Cited 2 times Online Publication Date: 2 Aug 2012 Abstract | Full Text HTML | References | PDF (498 KB) | Permissions + Show Abstract Buckling Loads of Two-Layer Composite Columns with Interlayer Slip and **Stochastic Material Properties** Simon Schnabl, Igor Planinc, and Goran Turk J. Eng. Mech. 139(8), 961-966 (2013); http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000478 | Cited 1 time Online Publication Date: 25 May 2012 Abstract | Full Text HTML | References | PDF (1131 KB) | Permissions + Show Abstract Effect of Fiber Orientation on Buckling and First-Ply Failures of Cylindrical **Shear-Deformable Laminates** Izzet U. Cagdas and Sarp Adali J. Eng. Mech. 139(8), 967-978 (2013); http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000562 Online Publication Date: 5 Nov 2012

Abstract | Full Text HTML | References | PDF (312 KB) | Permissions

+ Show Abstract

Thermal Postbuckling of Shear Deformable FGM Cylindrical Shells Surrounded by an Elastic Medium

Hui-Shen Shen

J. Eng. Mech. 139(8), 979-991 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000439

| Cited 7 times

Online Publication Date: 15 Jul 2013

Abstract | Full Text HTML | References | PDF (523 KB) | Permissions

+ Show Abstract

Generalized Beam Theory to Analyze the Vibration of Open-Section Thin-**Walled Composite Members**

Nuno Silvestre and Dinar Camotim

J. Eng. Mech. 139(8), 992-1009 (2013):

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000507

Online Publication Date: 30 Jul 2012

Abstract | Full Text HTML | References | PDF (1527 KB) | Permissions

+ Show Abstract

Shear Deformable Generalized Beam Theory for the Analysis of Thin-**Walled Composite Members**

Nuno Silvestre and Dinar Camotim

J. Eng. Mech. 139(8), 1010-1024 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000506

| Cited 11 times

Online Publication Date: 30 Jul 2012

Abstract | Full Text HTML | References | PDF (1642 KB) | Permissions

+ Show Abstract

Nonlinear Constitutive Model for Axisymmetric Bending of Annular **Graphene-Like Nanoplate with Gradient Elasticity Enhancement Effects**

Y. M. Yu and C. W. Lim

J. Eng. Mech. 139(8), 1025-1035 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000625

| Cited 4 times

Online Publication Date: 15 Jul 2013

Abstract | Full Text HTML | References | PDF (657 KB) | Permissions

+ Show Abstract

Out-of-Plane Buckling of Microstructured Beams: Gradient Elasticity Approach

Noël Challamel and Mohammed Ameur

J. Eng. Mech. 139(8), 1036-1046 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000543

| Cited 2 times

Online Publication Date: 10 Sep 2012

Abstract | Full Text HTML | References | PDF (793 KB) | Permissions

+ Show Abstract

Lateral-Torsional Buckling of Partially Composite Horizontally Layered or Sandwich-Type Beams under Uniform Moment

Noël Challamel and Ulf Arne Girhammar

J. Eng. Mech. 139(8), 1047-1064 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000489

Online Publication Date: 30 Jul 2012

Abstract | Full Text HTML | References | PDF (980 KB) | Permissions

+ Show Abstract

Buckling Behavior of Sinusoidal Web for Composite Wood I-Joist with **Elastically Restrained Loaded Edges under Compression**

An Chen, Julio F. Davalos, Pengcheng Jiao, and Bradley McGraw

J. Eng. Mech. 139(8), 1065-1072 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000443

| Cited 1 time

Online Publication Date: 28 Mar 2012

Abstract | Full Text HTML | References | PDF (1202 KB) | Permissions

+ Show Abstract

Comparison of Variational, Differential Quadrature, and Approximate Closed-Form Solution Methods for Buckling of Highly Flexurally **Anisotropic Laminates**

Zhangming Wu, Gangadharan Raju, and Paul M. Weaver

J. Eng. Mech. 139(8), 1073-1083 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000468

| Cited 3 times

Online Publication Date: 28 Jul 2012

Abstract | Full Text HTML | References | PDF (1270 KB) | Permissions

+ Show Abstract

Analytical Solution for Initial Postbuckling Deformation of the Sandwich **Beams Including Transverse Shear**

Yongping Yu, Youhong Sun, and Lin Zang

J. Eng. Mech. 139(8), 1084-1090 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000469

| Cited 1 time

Online Publication Date: 15 Jul 2013

Abstract | Full Text HTML | References | PDF (974 KB) | Permissions

+ Show Abstract

Buckling of Generic Higher-Order Shear Beam/Columns with Elastic Connections: Local and Nonlocal Formulation

Noël Challamel, Ismail Mechab, Noureddine Elmeiche, Mohammed Sid

Ahmed Houari, Mohammed Ameur, and Hassen Ait Atmane

J. Eng. Mech. 139(8), 1091-1109 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000542

| Cited 2 times

Online Publication Date: 10 Sep 2012

Abstract | Full Text HTML | References | PDF (1067 KB) | Permissions

+ Show Abstract

Buckling of Stiffened Antisymmetric Laminated Plates

Liecheng Sun and Issam E. Harik

J. Eng. Mech. 139(8), 1110-1123 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000467

| Cited 1 time

Online Publication Date: 4 May 2012

Abstract | Full Text HTML | References | PDF (1247 KB) | Permissions

+ Show Abstract

Buckling of Asymmetrically Delaminated Three-Dimensional Twisted Composite Beam: Exact Solution

Aleš Kroflič, Miran Saje, Igor Planinc, and Dejan Zupan

J. Eng. Mech. 139(8), 1124-1132 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000496

Online Publication Date: 31 Jul 2012

Abstract | Full Text HTML | References | PDF (822 KB) | Permissions

+ Show Abstract

Free Vibrations and Stability of a New Slender System Subjected to a **Conservative or Nonconservative Load**

Lech Tomski and Sebastian Uzny

J. Eng. Mech. 139(8), 1133-1148 (2013);

http://dx.doi.org/10.1061/(ASCE)EM.1943-7889.0000463

| Cited 1 time

Online Publication Date: 4 May 2012

Abstract | Full Text HTML | References | PDF (487 KB) | Permissions

+ Show Abstract