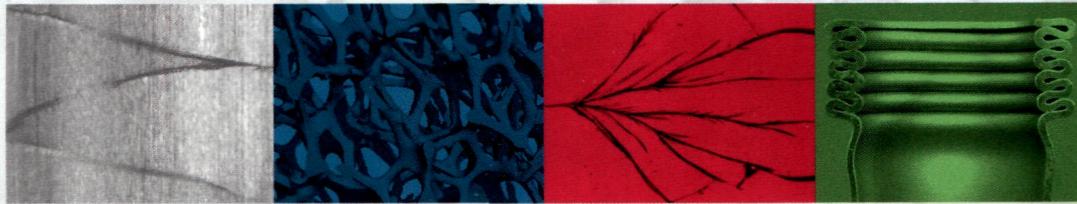


Volume 51 | Issues 21–22 | 15 October 2014

ISSN 0020-7683

INTERNATIONAL JOURNAL OF

# SOLIDS AND STRUCTURES



Editors:

**Stelios Kyriakides**

The University of Texas at Austin, USA

**David Hills**

University of Oxford, UK



ELSEVIER

Volume 51, Issues 21–22, 15 October 2014

INTERNATIONAL JOURNAL OF  
SOLIDS AND  
STRUCTURES

## CONTENTS

- S. El Maï, S. Mercier, J. Petit and A. Molinari** 3491 An extension of the linear stability analysis for the prediction of multiple necking during dynamic extension of round bar
- Y. Espinosa-Almeyda, R. Rodríguez-Ramos, R. Guinovart-Díaz, J. Bravo-Castillero, J. C. López-Realpozo, H. Camacho-Montes, F. J. Sabina and F. Lebon** 3508 Antiplane magneto-electro-elastic effective properties of three-phase fiber composites
- S. Y. Ch'ng, A. Andriyana, M. S. Loo and E. Verron** 3522 Constitutive modeling of strain-induced softening in swollen elastomers
- X. F. Wang, Q. S. Yang and S.-s. Law** 3532 Wrinkled membrane element based on the wrinkling potential
- K. L. Nielsen, C. F. Niordson and J. W. Hutchinson** 3549 Strain gradient effects in periodic flat punch indenting at small scales
- Q. Shao, R. Fernández-González, A. Mikdam, L. Bouhala, A. Younes, P. Núñez, S. Belouettar and A. Makradi** 3557 Influence of heat transfer and fluid flow on crack growth in multilayered porous/dense materials using XFEM: Application to Solid Oxide Fuel Cell like material design
- N. Bouchaala, N. Peyret, I. Tawfiq, J. L. Dion and M. Haddar** 3570 Compact model and identification process for friction induced damping in a rotational joint with flawed surfaces
- A.-T. Ta, F. Holweck, N. Labed, A. Thionnet and F. Peyraut** 3579 A constructive approach of invariants of behavior laws with respect to an infinite symmetry group – Application to a biological anisotropic hyperelastic material with one fiber family
- S. Govindjee, T. Potter and J. Wilkening** 3589 Dynamic stability of spinning viscoelastic cylinders at finite deformation
- V. Agrawal and K. Bhattacharya** 3604 Shock wave propagation through a model one dimensional heterogeneous medium
- F. Xu, M. Potier-Ferry, S. Belouettar and Y. Cong** 3619 3D finite element modeling for instabilities in thin films on soft substrates
- C. Simoneau, P. Terriault, J. Rivard and V. Brailovski** 3633 Modeling of metallic foam morphology using the Representative Volume Element approach: Development and experimental validation
- M. Liu** 3642 Finite element analysis of large contact deformation of an elastic-plastic sinusoidal asperity and a rigid flat
- C. Sultan** 3653 Tensegrity deployment using infinitesimal mechanisms
- Z. Q. Huang, J. C. Zhou, X. Q. He and K. M. Liew** 3669 Variational analysis for angle-ply laminates with matrix cracks

(Continued on inside back cover)

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

**ScienceDirect**

INDEXED IN Appl Mech Rev, Curr Cont ASCA, Cam Sci Abstr, Curr Cont/Eng Tech & Appl Sci, Eng Ind, INSPEC Data, Int Civil Eng Abstr, Math R, Mechanics, MSCI, PASCAL-CNRS Data, Science Citation Index, Curr Cont SCISEARCH Data, SSSA/CISA/ECA/ISMEC. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®.

ISSN 0020-7683



0020-7683(20141015)51:21-22;1-8

*CONTENTS—continued from outside back cover*

- Z. Chen, F. Yang and S. A. Meguid** 3679 Multi-level modeling of woven glass/epoxy composite for multilayer printed circuit board applications
- S. Kundu, S. Manna and S. Gupta** 3689 Love wave dispersion in pre-stressed homogeneous medium over a porous half-space with irregular boundary surfaces
- S. de Miranda, A. Madeo, R. Miletta and F. Ubertini** 3698 On the relationship of the shear deformable Generalized Beam Theory with classical and non-classical theories
- L.-E. Andersson, J. R. Barber and A. R. S. Ponter** 3710 Existence and uniqueness of attractors in frictional systems with uncoupled tangential displacements and normal tractions
- K. Pan, Y. Ni, L. He and R. Huang** 3715 Nonlinear analysis of compressed elastic thin films on elastic substrates: From wrinkling to buckle-delamination
- E. D. Reedy Jr. and J. M. Emery** 3727 A simple cohesive zone model that generates a mode-mixity dependent toughness
- X. Guo and P. Wei** 3735 Effects of initial stress on the reflection and transmission waves at the interface between two piezoelectric half spaces
- M. Kõrgesaar, H. Remes and J. Romanoff** 3752 Size dependent response of large shell elements under in-plane tensile loading
- D. Zhang and D. R. Hayhurst** 3762 Prediction of stress-strain and fracture behaviour of an 8-Harness satin weave ceramic matrix composite
- O. E. Sotomayor and H. V. Tippur** 3776 Role of cell regularity and relative density on elasto-plastic compression response of random honeycombs generated using Voronoi diagrams
- M. Braun and J. Fernández-Sáez** 3787 A new 2D discrete model applied to dynamic crack propagation in brittle materials
- Z. Zhou, A. Y. T. Leung, X. Xu and X. Luo** 3798 Mixed-mode thermal stress intensity factors from the finite element discretized symplectic method