Journal of Mechanics

Volume 30 Issue 2 April 2014



ISSN: 1727-7191

Published online by Cambridge University Press

Journal of Mechanics

Aims and Scope:

The objective of the Journal of Mechanics is to provide an international forum to foster exchange of ideas among mechanics communities in different parts of world. The Journal of Mechanics publishes original research in all fields of theoretical and applied mechanics. The Journal especially welcomes papers that are related to recent technological advances, such as micro/nanomechanics, medical and biological systems, and microscale heat transfer. The contributions, which may be analytical, experimental or numerical, should be of significance to the progress of mechanics. Papers which are merely illustrations of established principles and procedures will generally not be accepted. Reports that are of technical interest are published as Short articles. Review articles are published only by invitation.

Editor-in-Chief and Chairman of Editorial Board:

K. N. Chiang, Department of Power Mechanical Engineering, National Tsing Hua University, Hsinchu, Taiwan

Associate Editors:

- C. Bailey, University of Greenwich, U.K.
- A. Bejan, Department of Mechanical Engineering and Materials Science, Duke University, U.S.A.
- Y. Benveniste, Faculty of Engineering, Tel-Aviv University, Israel
- W. S. Chan, Mechanical and Aerospace Engineering, University of Texas at Arlington, U.S.A.
- C. K. Chao, Dept. of Mechanical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan
- J. C. Chen, Dept. of Mechanical Engineering, National Central University, Jhongli City, Taiwan
- J. T. Chen, Dept. of Harbor and River Eng. / Dept. Mech and Metramechanical Eng., Taiwan Ocean University, Keelung, Taiwan
- T. Y. Chen, Dept. of Civil Engineering, National Cheng Kung University, Tainan, Taiwan
- H. C. Cheng, Feng Chia University, Taiwan
- H. D. Cheng, Department of Civil Engineering, University of Mississippi, U.S.A.
- M. Daniel, Czech Technical University in Prague, Czech Republic
- V. M. Fomin, Russian Academy of Sciences, Novosibirsk, Russia
- H. Gao, School of Engineering, Brown University, U.S.A.
- S. S. Hsieh, Dept. of Mechanical and Electro-Mechanical Engineering, National Sun Yat-sen University, Kaohsiung, Taiwan
- M. Iguchi, Division of Materials Science and Engineering, Graduate School of Engineering, Hokkaido University, Japan
- A. M. Korsunsky, Department of Engineering Science, Oxford University, U.K.
- U. Lei, Institute of Applied Mechanics, National Taiwan University, Taipei, Taiwan
- C. A. Lin, National Tsing Huai University, Taiwan
- D. S. Liu, National Chung Cheng University, Taiwan
- C. C. Ma, Dept. of Mechanical Engineering, National Taiwan University, Taipei, Taiwan
- Y. L. Shen, Department of Mechanical Engineering, University of New Mexico, U.S.A.
- T. E. Tezduyar, Rice University, U.S.A.
- T. C. T. Ting, Division of Mechanics and Computation, Stanford University, U.S.A.
- T. Wang, Department of Mechanical Engineering, University of New Orleans, U.S.A.
- W. F. Wu, Dept. of Mechanical Engineering, National Taiwan University, Taipei, Taiwan
- R. J. Yang, Dept. of Engineering Science, National Cheng Kung University, Tainan, Taiwan
- G. Q. Zhang, Delft University of Technology, The Netherlands

Editorial Advisory Board:

W. H. Chen	Y. N. Chen	Z. C. Hong	S. J. Hsieh	J. S. Hwang
R. R. Hwang	C. C. Lin	C. F. Lin	C. Y. Lin	D. Shaw
J. Q. Tarn Y. C.	Tsai C. B.	P. Tsay H. T.	Wang	

Executive Editor:

H. Y. Tsai, Department of Power Mechanical Engineering, National Tsing Hua University, Hsinchu, Taiwan

Abstracted/indexed in:

SCI Expanded; Engineering Index (EI Compendex); Current Content; Research Alert; International Aerospace Abstract; Cambridge Scientific Abstracts; Chemical Abstracts Service; Advanced Polymers Abstract; Aluminum Industry Abstracts; Composites Industry Abstracts; Computer and Information Systems Abstracts Journal; Corrosion Abstracts; Earthquake Engineering Abstracts; Electronics and Communications Abstracts Journal; Engineered Materials Abstracts; Environmental Engineering Abstracts (Online Edition); Materials Business File; METADEX; World Ceramics Abstracts (Online); Environmental Science and Pollution Management; Solid State and Superconductivity Abstracts.

Publication Office:

The Society of Theoretical and Applied Mechanics, R.O.C.

Department of Power Mechanical Engineering, National Tsing Huang University, No. 101, Sec. 2, Kuangfu Rd., Hsinchu 300, Taiwan, R.O.C.

Subscription Information:

For general price and subscription enquiries, please contact Cambridge University Press:

For United Kingdom, Europe and Rest of the World:	For the United States, Canada and Mexico:		
Cambridge University Press	Cambridge University Press		
The Edinburgh Building	100 Brook Hill Drive		
Shaftesbury Road	West Nyack, NY 10994-2133		
Cambridge CB2 8RU	USA		
United Kingdom	Phone: +1-845-353-7500		
Phone: +44-(0)-1223-326070	Toll free: +1-800-872-7423		
Fax: +44-(0)-1223-325150	Fax: +1-845-353-4141		
Email: journals@cambridge.org	Email: subscriptions_newyork@cambridge.org		

Visit the Journal of Mechanics online at: http://journals.cambridge.org/jom

Acknowledgement:

The financial support from the National Science Council of the Republic of China is gratefully acknowledged.

Copyright © 2014 The Society of Theoretical and Applied Mechanics, R.O.C.

Edited & Printed by DnE Information Service Net, Taiwan, Tel: +886-2-2221-2552, Fax: +886-2-2221-8872, website: www.dneinfo.com