

International Journal of Manufacturing, Materials, and Mechanical Engineering

October-December 2013, Vol. 3, No. 4

Table of Contents

RESEARCH ARTICLES

- 1 **Modeling and Experimental Verification of Nano Positioning System for Nanomanufacturing**
Sagil James, Department of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, USA
Lauren Blake, Department of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, USA
Murali M. Sundaram, Department of Mechanical and Materials Engineering, University of Cincinnati, Cincinnati, OH, USA
- 14 **Microlubrication Effects During End Milling AISI 1018 Steel**
Vasim Shaikh, Department of Engineering Technology, University of North Texas, Denton, TX, USA
Nourredine Boubekri, Department of Engineering Technology, University of North Texas, Denton, TX, USA
Thomas W. Scharf, Department of Materials Science and Engineering, University of North Texas, Denton, TX, USA
- 30 **Effect of TiO₂ and ZnS Fillers on the Bending Characteristics of GFRP Composites under Varied Flaw Configurations**
M. C. Muruges, Department of Mechanical Engineering, G.M Institute of Technology (GMIT), Davangere, Karnataka, India
D. Sujay Kumar, Department of Mechanical Engineering, Coorg Institute of Technology, Ponnampet, Karnataka, India
K. V. Arun, Department of Mechanical Engineering, Government Engineering College, Haveri, Karnataka, India
- 44 **Finite Element Analysis of Elliptical Chord: Tubular T-Joints**
K. S. Narayana, Department of Mechanical Engineering, Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam, Andhra Pradesh, India
R. T. Naik, Department of Mechanical Engineering, Indian Institute of Science, Bangalore, Karnataka, India
R. C. Mouli, Department of Mechanical Engineering, Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam, Andhra Pradesh, India
L. V. V. Gopala Rao, Department of Mechanical Engineering, Maharaj Vijayaram Gajapathi Raj College of Engineering (MVGRCE), Vizianagaram, Andhra Pradesh, India
R. T. Babu Naik, National Geophysical Research Institute, Hyderabad, Andhra Pradesh, India
- 62 **A Molecular Dynamics Simulation Study of the Mechanical Properties of Carbon-Nanotube Reinforced Nylon 6 Composite**
Nabila Tahreen, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
A.K.M. Masud, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

Copyright

The **International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME)** (ISSN 2156-1680; eISSN 2156-1672), Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Manufacturing, Materials, and Mechanical Engineering* is indexed or listed in the following: Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; ProQuest Engineering Journals; ProQuest Illustrata Technology; ProQuest Materials Science Journals; ProQuest SciTech Journals; ProQuest Technology Journals; SCOPUS; The Standard Periodical Directory; Ulrich's Periodicals Directory