

Table of Contents

International Journal of Manufacturing, Materials, and Mechanical Engineering

Volume 8 • Issue 3 • July-September-2018 • ISSN: 2156-1680 • eISSN: 2156-1672

An official publication of the Information Resources Management Association

Research Articles

- 1 **Fuzzy Logic Based Path Planning for Industrial Robot**
Supriya Sahu, Department of Mechanical Engineering, Indira Gandhi Institute of Technology, Sarang, India
Bibhuti Bhusan Choudhury, Department of Mechanical Engineering, Indira Gandhi Institute of Technology, Sarang, India

- 12 **Investigating Heat Sink Properties for an Efficient Construction of Energy Generating Cook Stove for Rural Settlers**
M.E. Emeteri, Department of Physics, Covenant University Canaan Land, Ota, Nigeria & Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg, South Africa
O.D. Okonkwo, Department of Physics, Covenant University Canaan Land, Ota, Nigeria
S. Jack-Quincy, Department of Physics, Covenant University Canaan Land, Ota, Nigeria

- 23 **Geometrically Non-Linear Frequency Response of Axially Functionally Graded Beams Resting on Elastic Foundation Under Harmonic Excitation**
Hareram Lohar, Department of Mechanical Engineering, Jadavpur University, Kolkata, India
Anirban Mitra, Department of Mechanical Engineering, Jadavpur University, Kolkata, India
Sarmila Sahoo, Department of Civil Engineering, Heritage Institute of Technology, Kolkata, India

- 44 **Parameter Design of High-Resolution E-Jet Micro-Fabrication Process by Taguchi Utility Approach**
Raju Das, National Institute of Technology Durgapur, Durgapur, India
Shibendu Shekhar Roy, National Institute of Technology Durgapur, Durgapur, India

COPYRIGHT

The **International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMME)** (ISSN 2156-1680; eISSN 2156-1672), Copyright © 2018 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: ACM Digital Library; 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; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)