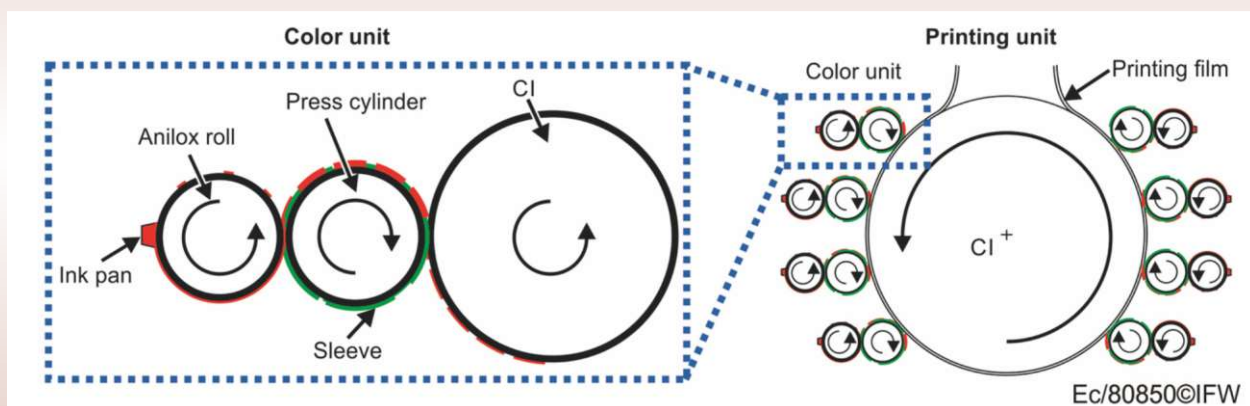


Modern Mechanical Engineering



ISSN: 2164-0165



Journal Editorial Board

ISSN Print: 2164-0165 ISSN Online: 2164-0181
http://www.scirp.org/journal/mme

Editor in Chief

Prof. C. W. Lim City University of Hong Kong, China

Editorial Board

Dr. Eugen Axinte Gheorghe Asachi Technical University of Iasi (TUIASI), Romania

Dr. Vincenzo Bianco University of Genova, Italy

Prof. Daniel Chen University of Saskatchewan, Canada

Dr. Gang (Sheng) Chen Marshall University, USA

Prof. Wen-Feng Ding Nanjing University of Aeronautics and Astronautics, China

Dr. Babak Ebrahimian Petroleum Industry Research Engineering Company, Iran

Dr. Asghar Esmaeeli Southern Illinois University, USA

Dr. Sachin Goyal University of California, USA

Prof. Linxia Gu University of Nebraska-Lincoln, USA

Prof. Linghui He University of Science and Technology of China, China

Dr. Xingjian Jing Hong Kong Polytechnic University, China

Prof. Jaehyung Ju University of North Texas, USA

Dr. Abdullah Abbas Kendoush Augusta Technical College, USA

Dr. Hong Jin Kim Globalfoundries, USA

Dr. Samir Mekid King Fahd University Petroleum & Minerals, Saudi Arabia

Dr. Gordon R. Pennock Purdue University, USA

Dr. Faisal Talib University Polytechnic, India

Prof. Giuseppe Vairo University of Rome “Tor Vergata”, Italy

Dr. Yu-Fei Wu City University of Hong Kong, China

Dr. Ng Teng Yong Nanyang Technological University, Singapore

Prof. Yong Zhou Zhejiang Normal University, China

Table of Contents

Volume 6 Number 1

February 2016

Study of Mechanical and Micro-Structural Effect on Alkaline Treated Sponge Gourd (<i>Luffa aegyptiaca</i>) Fibre Epoxy Composite	
S. I. Ichetaonye, D. N. Ichetaonye, O. G. Tenebe.....	1
Development of a Flexible Multibody Model to Simulate Nonlinear Effects in Printing Process	
M. Eckl, T. Lepper, B. Denkena.....	10
Intelligent Winding Machine of Plastic Films for Preventing Both Wrinkles and Slippages	
H. Hashimoto.....	20
Response Surface Methodology Approach for Transmission Optimization of V-Belt Drive	
N. A. Raji, A. A. Erameh, A. A. Yussouff, R. O. Durojaye.....	32
Approaches for Detailed Modelling of Ultra-Precision Positioning Systems	
D. Dahlmann, N. Sassi, B. Denkena.....	44

Modern Mechanical Engineering (MME)

Journal Information

SUBSCRIPTIONS

The *Modern Mechanical Engineering* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$69 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2016 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2016 by author(s) and Scientific Research Publishing Inc.

REUSE RIGHTS FOR INDIVIDUAL PAPERS:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

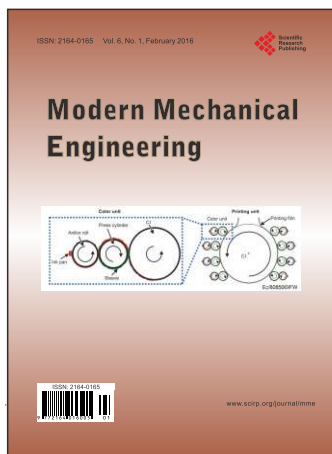
DISCLAIMER OF LIABILITY

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: mme@scirp.org



Call for Papers

Modern Mechanical Engineering

ISSN Print: 2164-0165 ISSN Online: 2164-0181

<http://www.scirp.org/journal/mme>

Modern Mechanical Engineering (MME) is an international journal dedicated to the latest advancement of mechanical engineering. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of mechanical engineering.

Editor in Chief

Prof. C. W. Lim

City University of Hong Kong, China

Editorial Board

Dr. Eugen Axinte
 Dr. Vincenzo Bianco
 Prof. Daniel Chen
 Dr. Gang (Sheng) Chen
 Prof. Wen-Feng Ding
 Dr. Babak Ebrahimi
 Dr. Asghar Esmaeeli
 Dr. Sachin Goyal
 Prof. Linxia Gu
 Prof. Linghui He
 Dr. Xingjian Jing
 Prof. Jaehyung Ju
 Dr. Abdullah Abbas Kendoush
 Dr. Hong Jin Kim
 Dr. Samir Mekid
 Dr. Gordon R. Pennock
 Dr. Faisal Talib
 Prof. Giuseppe Vairo
 Dr. Yu-Fei Wu
 Dr. Ng Teng Yong
 Prof. Yong Zhou

Gheorghe Asachi Technical University of Iasi (TUIASI), Romania
 University of Genova, Italy
 University of Saskatchewan, Canada
 Marshall University, USA
 Nanjing University of Aeronautics and Astronautics, China
 Petroleum Industry Research Engineering Company, Iran
 Southern Illinois University, USA
 University of California, USA
 University of Nebraska-Lincoln, USA
 University of Science and Technology of China, China
 Hong Kong Polytechnic University, China
 University of North Texas, USA
 Augusta Technical College, USA
 Globalfoundries, USA
 King Fahd University Petroleum & Minerals, Saudi Arabia
 Purdue University, USA
 University Polytechnic, India
 University of Rome "Tor Vergata", Italy
 City University of Hong Kong, China
 Nanyang Technological University, Singapore
 Zhejiang Normal University, China

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Applied Mathematics and Mechanics
- Biomechanics
- Celestial Mechanics and Dynamical Astronomy
- Computational Mechanics
- Computer Methods in Applied Mechanics and Engineering
- Continuum Mechanics and Thermodynamics
- Damage Mechanics
- Engineering Fracture Mechanics
- Experimental Mechanics
- Mathematical Fluid Mechanics
- Mechanics in Medicine and Biology
- Mechanics of Composite Materials
- Mechanics of Materials
- Mechanism and Machine Theory
- Non-Linear Mechanics
- Non-Newtonian Fluid Mechanics
- Numerical and Analytical Methods in Geomechanics
- Rock Mechanics and Mining Sciences
- Solid and Structural Mechanics
- Theoretical and Applied Fracture Mechanics

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Website and E-Mail

<http://www.scirp.org/journal/mme>

E-mail: mme@scirp.org