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 (PIRE Co.), Iran
Dr. Asghar Esmaeeli     Southern Illinois University, USA
Dr. Sachin Goyal        University of California, USA
Dr. Linxia Gu           University of Nebraska-Lincoln, USA
Dr. Xingjian Jing       Hong Kong Polytechnic University, China
Dr. 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. Giuseppe Vairo      University of Rome “Tor Vergata”, Italy
Prof. Yong Zhou         Zhejiang Normal University, China
# Table of Contents

**Volume 4  Number 2  May 2014**

**A Study on the Effective Long Type Coil Shape by Multidisciplinary Method in Induction Heating**
Y. H. Lee, Y. S. Ha

**Experimental Verification of Fault Predictions in High Pressure Hydraulic Systems**
P. Athanasatos, D. Koulocheris, Th. Costopoulos, V. Spitas

**Heat Flux Analysis in Electrical Transformers through Integral Operators of Mechanics**
F. Bulnes, A. R. Tello, M. Livera

**Semi-Analytical Approach for Stiffness Estimation of 3-DOF PKM**
H. Nigus

The figure on the front cover is from the article published in Modern Mechanical Engineering, 2014, Vol. 4, No. 2, pp. 108-118 by Hailemariam Nigus.
Modern Mechanical Engineering (MME)

Journal Information

SUBSCRIPTIONS


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)
E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:
Copyright © 2014 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 © 2014 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
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 Ebrahimian
Dr. Asghar Esmaeeli
Dr. Sachin Goyal
Dr. Linxia Gu
Dr. Xingjian Jing
Dr. Jaehyung Ju
Dr. Abdullah Abbas Kendoufsh
Dr. Hong Jin Kim
Dr. Samir Mekid
Dr. Gordon R. Pennock
Dr. Giuseppe Vairo
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 (PIRE Co.), Iran
Southern Illinois University, USA
University of California, USA
University of Nebraska-Lincoln, USA
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 of Rome "For Vergata", Italy
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