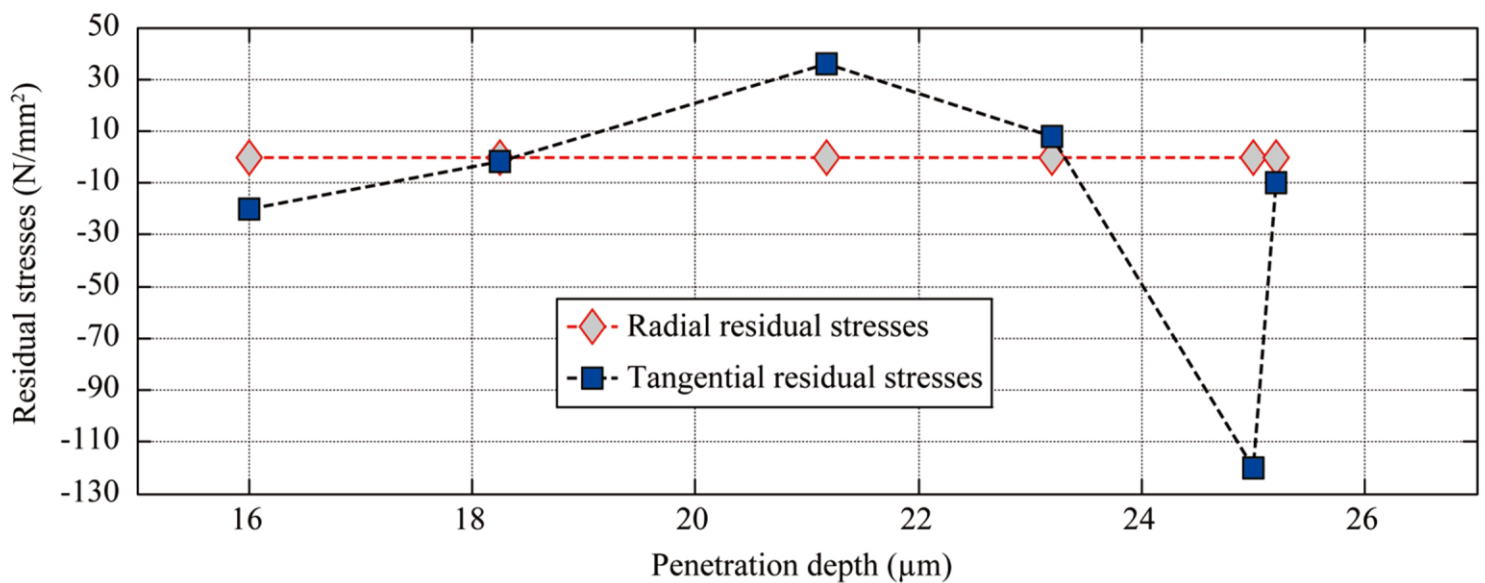


Modern Mechanical Engineering



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 Ebrahimi 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 Samsung Electronics Co., Ltd., South Korea

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 3 Number 3

August 2013

Measurement of Effective Reading Distance of UHF RFID Passive Tags

Y.-P. Luh, Y.-C. Liu.....115

**Determination of Residuals Stresses Induced by the Autofrettage Treatment by the X-Rays
Diffraction Method**

N. Zerari, T. Saidouni, A. Benretem.....121

Use of Vehicle Power-Train Simulation with AMT for Fuel Economy and Performance

N. A. Abdel-Halim.....127

The figure on the front cover is from the article published in *Modern Mechanical Engineering*, 2013, Vol. 3, No. 3, pp. 121-126 by Naziha Zerari, Tarik Saidouni and Abdelouaheb Benretem.

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: \$59 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©2013 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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.

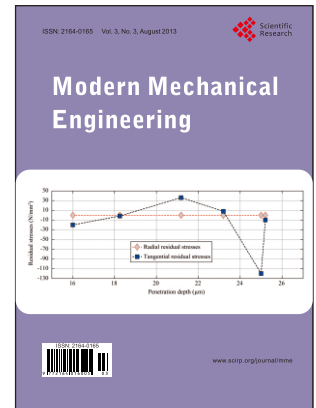
PRODUCTION INFORMATION

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

E-mail: mme@scirp.org

Modern Mechanical Engineering

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	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 Ebrahimi	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	Samsung Electronics Co., Ltd., South Korea
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

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

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, world-wide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific
Research**

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org