Journal Editorial Board

ISSN Print: 1947-3931  ISSN Online: 1947-394X
http://www.scirp.org/journal/eng

Editor-in-Chief
Prof. David L. Carroll
Wake Forest University, USA

Editorial Board
Dr. Murad Abu-Farsakh
Louisiana State University, USA
Prof. Moh’d A. M. Al-Nimr
Jordan University of Science and Technology, Jordan
Prof. Shahnoor Basri
Putra University, Malaysia
Dr. Hengky Chandrahalim
Swiss Federal Institute of Technology, Switzerland
Prof. Bin Chen
Xi’an Jiaotong University, China
Prof. Adinel Gavrul
European University of Brittany, France
Dr. Krzysztof Górski
Technical University of Radom, Poland
Dr. Sung-Cheon Han
Daewon University College, South Korea
Prof. David Hui
University of New Orleans, USA
Dr. Yunho Hwang
University of Maryland, USA
Prof. Shouetsu Itou
Kanagawa University, Japan
Prof. Jae Moung Kim
Inha University, South Korea
Prof. Yi-Yang Li
The Chinese University of Hong Kong, China
Dr. C. W. Lim
City University of Hong Kong, China
Dr. Durães Luisa
University of Coimbra, Portugal
Dr. Vandna Luthra
University of Delhi, India
Prof. Magdi Mahmoud
King Fahd University for Petroleum and Minerals, Saudi Arabia
Prof. Reinaldo Rodriguez Ramos
University of Havana, Cuba
Prof. Yuri Ribakov
Ariel University Center of Samaria, Israel
Dr. Arvind K. Srivastava
LightField Corporation, USA
Prof. Kune Y. Suh
Seoul National University, South Korea
Prof. Hongbin Sun
Tsinghua University, China
Prof. Gui-Hua Tang
Xi’an Jiaotong University, China
Dr. Costin D. Untaruoiu
University of Virginia, USA
Prof. Baolin Wang
Harbin Institute of Technology, China
Dr. Rodrigo Sérgio Wiederkehr
University of Louisville, USA
Dr. Yufei Wu
City University of Hong Kong, China
Dr. Yuanchang Xie
University of Massachusetts Lowell, USA
Dr. Wei Yan
Trend Micro, USA
Prof. Bo Yu
China University of Petroleum-Beijing, China
Dr. Lei Zhang
University of Maryland, USA
Dr. Ming Zhang
Schlumberger Limited, USA
# TABLE OF CONTENTS

**Volume 5 Number 6**  
**June 2013**

**Finite Element Modeling of Shop Built Spherical Pressure Vessels**  
O. Adeyefa, O. Oluwole ................................................................. 537

**Finite Element Modeling of Seismic Response of Field Fabricated Liquefied Natural Gas (LNG) Spherical Storage Vessels**  
O. Adeyefa, O. Oluwole ................................................................. 543

**Oil Transmission Pipelines Condition Monitoring Using Wavelet Analysis and Ultrasonic Techniques**  
W. S. Abushanab ................................................................. 551

**Optimal Inventory Policy of Production Management: A Present Value Framework**  
L.-F. Chang, S.-M. Su, S.-D. Lin ................................................................. 556

**Influence Factor Analysis on Strength of Lime-Fly Ash Loess**  
Y. F. Zhang, Z. Q. Zhang ................................................................. 561
Engineering

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $79 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©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 assumes 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: eng@scirp.org
Engineering is an international journal dedicated to the latest advancement of engineering. The goal of this journal is to provide a platform for engineers and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of engineering. 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:

- Aerospace Engineering
- Agricultural Engineering
- Applied Thermal Engineering
- Aquacultural Engineering
- Architecture and Civil Engineering
- Automobile Engineering
- Bioengineering
- Biological Engineering
- Biomedical Engineering
- Biomolecular Engineering
- Bionic Engineering
- Bioprocess and Biosystems Engineering
- Biotechnology and Bioengineering
- Building Services Engineering
- Business & Information Systems Engineering
- Cardiovascular Engineering and Technology
- Cellular and Molecular Bioengineering
- Chemical Engineering & Technology
- Civil Engineering
- Coal Science and Engineering
- Coastal Engineering
- Communication Engineering
- Computational Methods in Engineering
- Computer-Aided Civil and Infrastructure Engineering
- Computer-Aided Engineering
- Computer Applications in Engineering Education
- Computer Engineering
- Computer Methods in Applied Mechanics and Engineering
- Crystal Engineering
- Data and Knowledge Engineering
- Earthquake Engineering & Structural Dynamics
- Ecological Engineering
- Electrical and Electronic Engineering
- Energy and Power Engineering
- Energy Engineering
- Energy Systems Engineering
- Engine Engineering
- Engineering Analysis with Boundary Elements
- Engineering and Technology Management
- Engineering Applications of Artificial Intelligence
- Engineering Cybernetics
- Engineering Economy
- Engineering Education
- Engineering Failure Analysis
- Engineering for Sustainability
- Engineering Fracture Mechanics
- Engineering Geology and the Environment
- Engineering in Life Sciences
- Engineering in Medicine
- Engineering Manufacture
- Engineering Materials
- Engineering Mathematics
- Engineering Physics and Thermophysics
- Engineering Science in Medicine
- Engineering Structures
- Engineering Tribology
- Engineering with Computers
- Environmental Engineering
- Environmental Science & Engineering
- Fire Protection Engineering
- Food Engineering
- Food Process Engineering
- Fusion Engineering and Design
- Fuzzy Information and Engineering
- Geophysics and Engineering
- Geotechnical and Geological Engineering
- Green Energy Engineering
- Industrial Engineering
- Landscape and Ecological Engineering
- Macromolecular Materials and Engineering
- Macromolecular Reaction Engineering
- Magnetic Resonance Engineering
- Manufacturing Engineering
- Management Engineering
- Maritime Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Medical Engineering & Technology
- Metabolic Engineering
- Metallurgical Engineering
- Microbiology Engineering
- Microcontrollers Engineering
- Microelectronics Engineering
- Micromechanics and Microengineering
- Military Engineering
- Mineral Resources Engineering
- Mining Engineering
- Molecular Engineering
- Nanoengineering
- Natural Gas Science and Engineering
- NeuroEngineering and Rehabilitation
- Nuclear Engineering and Design
- Numerical Methods in Engineering
- Ocean Engineering
- Oil Engineering
- Optics and Lasers in Engineering
- Optimization and Engineering
- Particle Engineering
- Petroleum Engineering
- Polymer Engineering and Science
- Power Engineering
- Precision Engineering and Manufacturing
- Probabilistic Engineering Mechanics
- Process Engineering
- Production Engineering
- Protein Engineering, Design and Selection
- Public Safety Information
- Radar Engineering
- Rare Metal Materials and Engineering
- Reliability, Quality and Safety Engineering
- Renewable Energy Engineering
- Requirements Engineering
- RF and Microwave Engineering
- Rock Mechanics and Rock Engineering
- Safety Systems Engineering
- Science and Engineering Ethics
- Social and Environmental Impact of Engineering Innovation
- Software and Knowledge Engineering
- Soil Dynamics and Earthquake Engineering
- Sports Engineering
- Strain Analysis for Engineering Design
- Structural Engineering and Materials
- Surface Engineering and Applied Electrochemistry
- Systems and Control Engineering
- Systems Assurance Engineering and Management
- Test Engineering
- Tissue Engineering and Regenerative Medicine
- Transportation Engineering
- Wind Engineering and Industrial Aerodynamics

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.

★★ Notes for Intending Authors

Submitted papers should not be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. For more details, please access the website.

★★ Website and E-Mail

http://www.scirp.org/journal/eng Email: eng@scirp.org