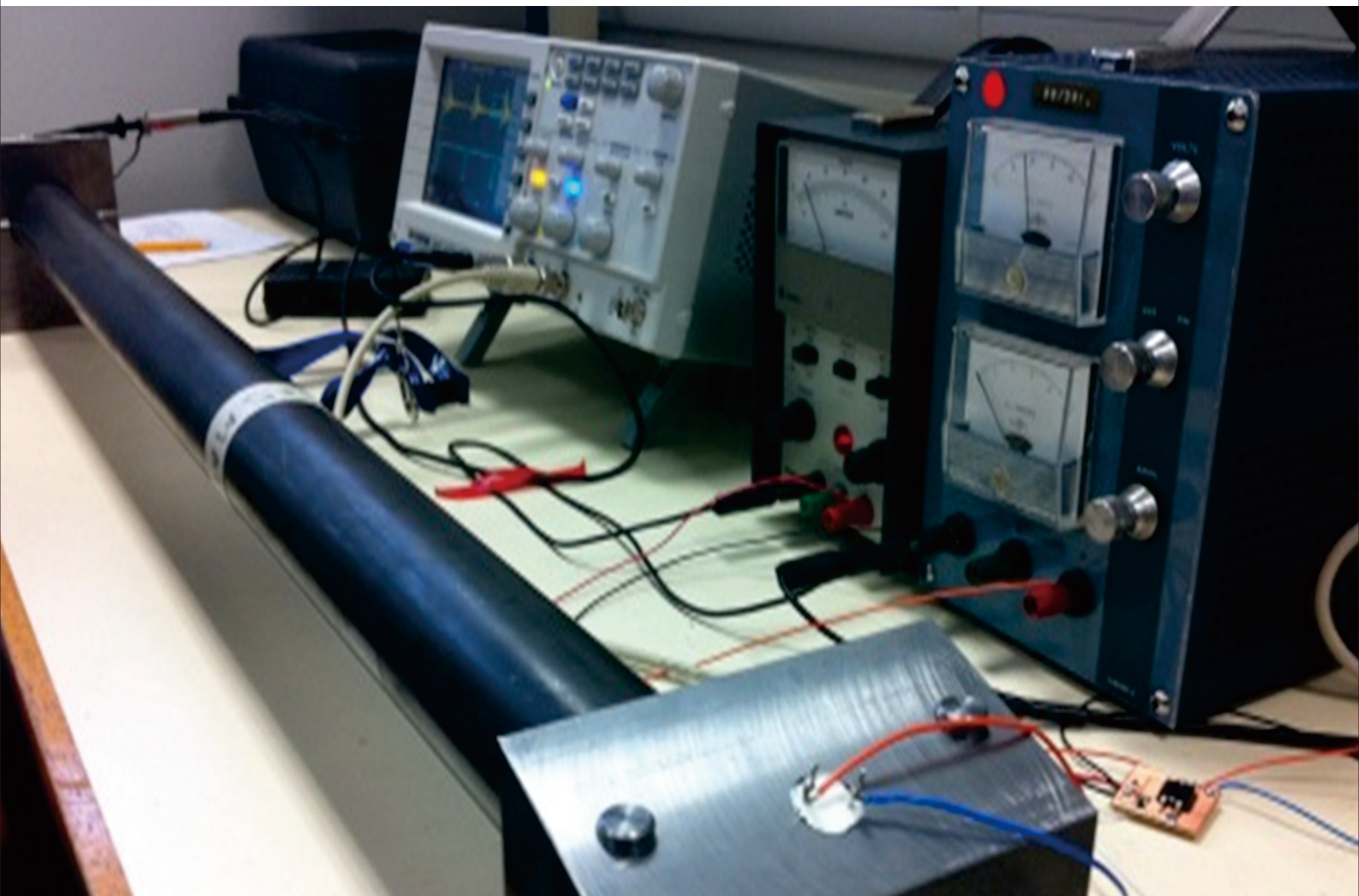


Engineering



ISSN: 1947-3931



www.scirp.org/journal/eng

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

Prof. Moh'd A. M. Al-Nimr

Prof. Shahnor Basri

Dr. Hengky Chandralahim

Prof. Bin Chen

Prof. Adinel Gavrus

Dr. Krzysztof Górski

Dr. Sung-Cheon Han

Prof. David Hui

Dr. Yunho Hwang

Prof. Shouetsu Itou

Prof. Jae Moun Kim

Prof. Yi-Yang Li

Dr. C. W. Lim

Dr. Durães Luisa

Dr. Vandna Luthra

Prof. Magdi Mahmoud

Prof. Reinaldo Rodriguez Ramos

Prof. Yuri Ribakov

Dr. Arvind K. Srivastava

Prof. Kune Y. Suh

Prof. Hongbin Sun

Prof. Gui-Hua Tang

Dr. Costin D. Untaroiu

Prof. Baolin Wang

Dr. Rodrigo Sérgio Wiederkehr

Dr. Yufei Wu

Dr. Yuanchang Xie

Dr. Wei Yan

Prof. Bo Yu

Dr. Lei Zhang

Dr. Ming Zhang

Louisiana State University, USA

Jordan University of Science and Technology, Jordan

Putra University, Malaysia

Swiss Federal Institute of Technology, Switzerland

Xi'an Jiaotong University, China

European University of Brittany, France

Technical University of Radom, Poland

Daewon University College, South Korea

University of New Orleans, USA

University of Maryland, USA

Kanagawa University, Japan

Inha University, South Korea

The Chinese University of Hong Kong, China

City University of Hong Kong, China

University of Coimbra, Portugal

University of Delhi, India

King Fahd University for Petroleum and Minerals, Saudi Arabia

University of Havana, Cuba

Ariel University Center of Samaria, Israel

LightField Corporation, USA

Seoul National University, South Korea

Tsinghua University, China

Xi'an Jiaotong University, China

University of Virginia, USA

Harbin Institute of Technology, China

University of Louisville, USA

City University of Hong Kong, China

University of Massachusetts Lowell, USA

Trend Micro, USA

China University of Petroleum-Beijing, China

University of Maryland, USA

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

The figure on the front cover is from the article published in *Engineering*, 2013, Vol. 5, No. 6, pp. 551-555 by Waheed Sami Abushanab.

Engineering

Journal Information

SUBSCRIPTIONS

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

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)

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.

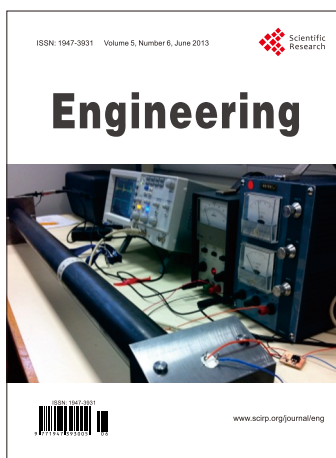
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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: eng@scirp.org



Engineering (ENG)

ISSN Print: 1947-3931 ISSN Online: 1947-394X

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

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
- Maintenance Engineering
- Management Engineering
- Maritime Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Medical Engineering & Technology
- Metabolic Engineering
- Metallurgical Engineering
- Microelectronic 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
- Petroleum Science and 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 and Software 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