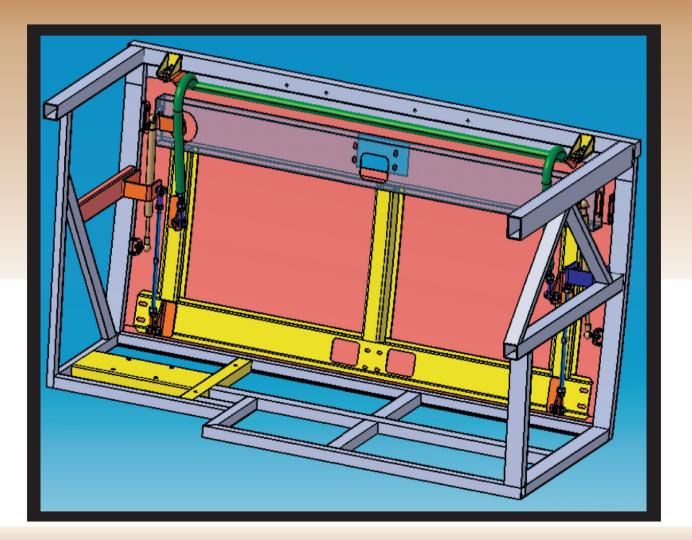


# **Engineering** Prof. David L. Carroll Wake Forest University, USA





www.scirp.org/journal/eng/

# **Journal Editorial Board**

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

### **Editor-in-Chief**

Prof. David L. Carroll

Wake Forest University, USA

### **Editorial Board**

Dr. Murad Y Abu-Farsakh Dr. Mohammad Al-Hwaiti Prof. Moh'd A. M. Al-Nimr Prof. Shahnor Basri **Dr. Hengky Chandrahalim Dr. Adinel Gavrus** Dr. Krzysztof Górski Dr. Zhongwei Guan Dr. Kunn Hadinoto **Dr. Sung-Cheon Han** Dr. Yunho Hwang **Prof. Shouetsu Itou Dr. Sushil Kansal** Prof. Jae Moung Kim Prof. Chui-Chi Lee Dr. Yiyang Li Dr. Durães Luisa Dr. Vandna Luthra Prof. Yong-Gang Lv Prof. Magdi Mahmoud Prof. Reinaldo Rodriguez Ramos Prof. Yuri Ribakov **Dr. Arvind K. Srivastava** Prof. Kune Y. Suh Prof. Hongbin Sun Dr. Costin D. Untaroiu **Prof. Baolin Wang** Dr. Rodrigo Sérgio Wiederkehr Dr. Yufei Wu Dr. Wei Yan Prof. Bo Yu Dr. Lei Zhang **Dr. Ming Zhang** 

Louisiana State University, USA Al-Hussein Bin Talal University, Jordan Jordan University of Science and Technology, Jordan Putra University, Malaysia Swiss Federal Institute of Technology, Switzerland National Institut of Applied Sciences Rennes, France Technical University of Radom, Poland University of Liverpool, UK Nanyang Technological University, Singapore Daewon University College, Korea (South) University of Maryland, USA Kanagawa University, Japan Panjab University, India Inha University, Korea (South) She-Te University, Taiwan (China) The Chinese University of Hong Kong, China Universidade de Coimbra Pólo II, Portugal University of Delhi, India Chongqing University, China King Fahd University for Petroleum and Minerals, Iran University of Havana, Cuba PAriel University Center of Samaria, Israel NanoSonix Inc., USA Seoul National University, Korea (South) Tsinghua University, China University of Virginia, USA Harbin Institute of Technology, China University of Louisville, USA City University of Hong Kong, China Trend Micro, USA China University of Petroleum - Beijing, China University of Maryland, USA Smith International, Inc., Uruguay

#### **Editorial Assistant**

Amanda Li



# **TABLE OF CONTENTS**

Volume 3	Number 4	April 2011
	Properties of Europium Complexes with Different Long Chains in lodgett (LB) Films	
T. S. Li, W. Sh	Shang, F. L. Zhang, L. Y. Mao, C. Q. Tang, M. P. Song, C. X. Du, Y. J. Wu	
Probability A	Analysis for the Damage of Gravity Dam	
Q. Xu, J. Li, J.	J. Y. Chen	
Proposing a N Slackness Prol	New Model of Hangers in Pedestrian Suspension Bridges to Solve Hangers oblem	
M. Barghian, H	H. M. Faridani	
The Implement	entation of a High Efficiency Full-Bridge Converter	
J. IZ. Chen		
Electrowinnin	ng of Copper Using Rotating Cylinder Electrode Utilizing Lead Anode	
H. Soliman, A.	A. A. El-Moneim	
Cambering of Complex Wav	f Four High Cold Mill with the View of Reducing Roller Ends Contact and Preventives	ing
Z. H. Bai, H. X	X. Si, X. D. Shi, Q. T. Zhou	
Modeling of Sl	Slab Induction Heating in Hot Rolling by FEM	
R. B. Mei, C. S	S. Li, X. H. Liu, B. Li, B. Han	
Performance a Oil/Diesel Fue	and Combustion Characteristics of Single Cylinder Diesel Engine Running on Kara el Blends	anja
S. R. Hotti, O.	). Hebbal	
Investigations	s on Non-Condensation Gas of a Heat Pipe	
JC. Wang		
-	l Study on Indoor Thermal Stratification in Large Space by under Floor Air Distrib D) in Summer	oution
X. Wang, C. H	Huang, W. W. Cao, X. L. Gao, W. Liu	



Comparison between the Isotope Tracking Method and Resistivity Tomography of Earth Rock-Fill
Dam Seepage Detection
M. J. Zhao, H. Wang, X. Sun, Y. Zhang
Formation of X-120 M Line Pipe through J-C-O-E Technique
J. D. Chandel, N. L. Singh
Design and Kinematics Analysis of a Parallel Mechanism to be Utilized as a Luggage Door by an Analogy to a Four-Bar Mechanism
B. Baykus, E. Anli, I. Ozkol
Stress Function of a Rotating Variable-Thickness Annular Disk Using Exact and Numerical Methods
A. M. Zenkour, D. S. Mashat
Application of Least Square Support Vector Machine (LSSVM) for Determination of Evaporation Losses n Reservoirs
P. Samui

The figure on the front cover is from the article published in Engineering, 2011, Vol. 3, No. 4, pp. 411-421, by Burak Baykus, Elmas Anli and Ibrahim Ozkol.

#### Engineering

#### **Journal Information**

#### SUBSCRIPTIONS

*Engineering* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly 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©2011 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

# **Call for Papers**

# A Journal Published by Scientific Research Publishing, USA

# www.scirp.org/journal/eng

## **Editor-in-Chief**

#### Prof. David L. Carroll Wake Forest University, USA

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 Mechanics Engineering
- Biological Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Communication Engineering
- Computer Aided Engineering
- Computer Engineering
- Electrical Engineering
- Energy Engineering
- Energy Systems Engineering
- Engine Biofuels
- Engine Engineering
- Engineering Cybernetics
- Engineering Economy
- Engineering Education
- Engineering for Sustainability
- Engineering/ Renewable Energy Engineering/Hybrid Safety Systems Engineering
- Environmental Engineering
- Green Energy Engineering/ Alternative Energy
- Industrial Engineering
- Maintenance Engineering
- Management Engineering
- Maritime Engineering

- Material Engineering
- Materials Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Metallurgical Engineering
- Micro-Electrical-Mechanical Systems Engineering
- Military Engineering
- Mining Engineering
- Molecular Engineering
- Nanoengineering
- Nanotechnology
- Nuclear Engineering
- Oil Engineering
- Particle Engineering
- Petroleum Engineering
- Power Engineering
- Process Engineering
- Public Safety Information
- Radar Engineering
- Social and Environmental Impact of Engineering Innovation
- Software Engineering
- Structural Engineering
- Test Engineering
- Transportation Engineering

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.



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

