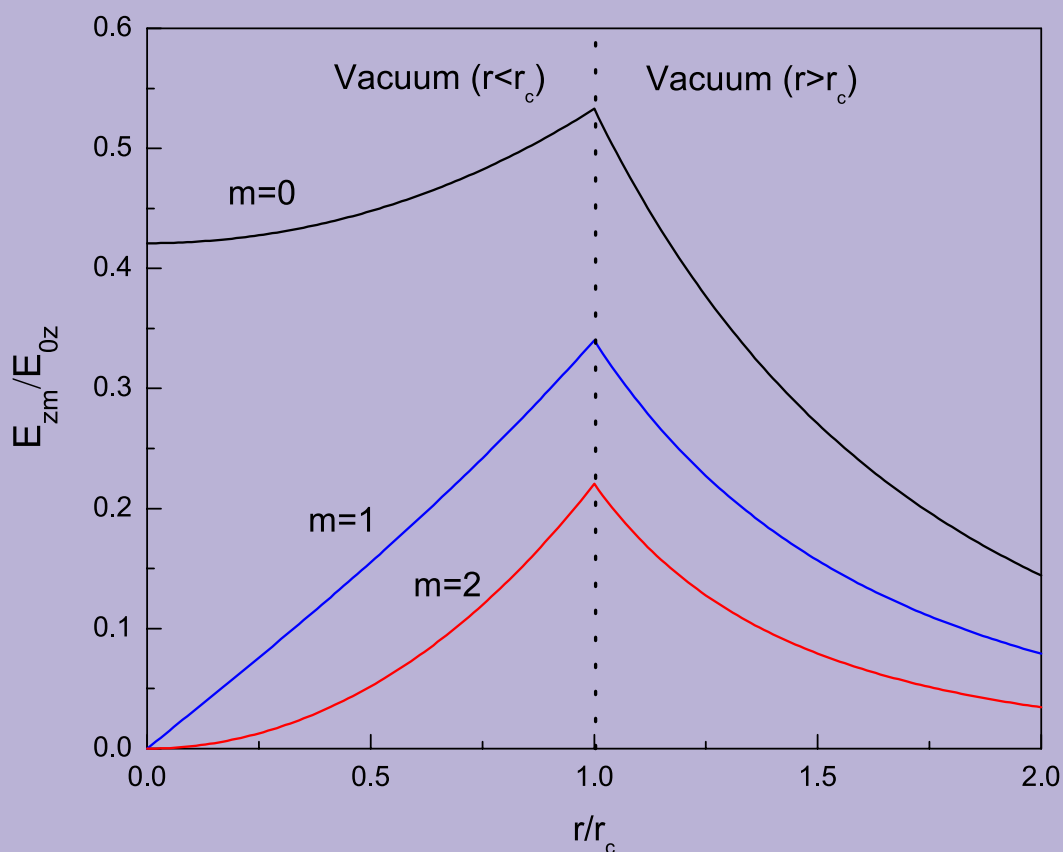


Journal of Electromagnetic Analysis and Applications

ISSN: 1942-0730

Volume 2, Number 12, December 2010



JOURNAL EDITORIAL BOARD

ISSN: 1942-0730 (Print) 1942-0749 (Online)

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

Editors-in-Chief

Prof. James L. Drewniak Missouri-Rolla University, USA
Prof. Yuanzhang Sun Wuhan University, China

Editorial Advisory Board

Prof. C.C. Chan University of Hong Kong, China
Prof. Ryuichi Yokoyama Waseda University, Japan
Prof. Xiaoxin Zhou Chinese Society of Electrical Engineering (CSEE), China

Editorial Board

Dr. Leonardo M. Angelone Food And Drug Administration, USA
Dr. Michail B. Belonenko Volgograd Institute of Business, Russia
Prof. Vladimir N. Binhi Russian Academy of Sciences, Russia
Dr. Boguslaw Butrylo Bialystok Technical University, Poland
Prof. Mohamed H. Gaber Cairo University, Egypt
Dr. Yuchun Guo Xidian University, China
Prof. Xijiang Han Harbin Institute of Technology, China
Dr. Eisuke Hanada Shimane University Hospital, Japan
Dr. Isabel Jesus Institute of Engineering of Porto, Portugal
Dr. Ozlem OZgun Middle East Technical University, Turkey
Dr. Mazen A. E. Salam Assiut University, Egypt
Dr. Yinbiao Shu State Grid Corporation, China
Prof. Yonghua Song Tsinghua University, China
Prof. Francisco Torrens Universitat of Valencia, Spain
Prof. Uygun V. Valiev Mirzo Ulugbek National University of Uzbekistan (NUUz), Uzbekistan
Prof. Ben Young University of Hong Kong, China
Dr. Wenhua Yu Pennsylvania State University, USA
Dr. Jun Zou Zhejiang University, China
Prof. Zeev Zalevsky Bar-Ilan University, Israel

Editorial Assistant

Vicky Li Scientific Research Publishing, USA. Email: jemaa@scirp.org

Guest Reviewers

Farzan Rashidi

Amel Boufrioua

TABLE OF CONTENTS

Volume 2 Number 12

December 2010

A High-Luminescence Fringelike Field Emission from Screen-Printed Carbon Nanotube and Zinc Oxide Composite Film

S. G. Shang, L. Zhao, W. H. Liu, P. Zhao, X. Li.....649

The Confinement of Electromagnetic Radiation of Nanoemitters in a Multilayered Microsphere with Left-Handed Layers

G. Burlak, A. Díaz-de-Anda.....654

Study of Dielectric Constant of (1-x) Zn.xMg.TiO₃ (ZMT) Ceramic Material at Microwave Frequencies as a Function of Composition x and Processing Temperature

R. K. Gangwar, S. P. Singh, M. Choudhary, N. K. Singh, D. Kumar, O. Parkash 664

Theory of Carbon Nanotubes as Optical Nano Waveguides

A. Moradi.....672

Comments Concerning Measurements and Equations in Electromagnetism

S. Abdelhady.....677

The figure on the front cover shows the Surface TM modes of a nanotube as a function of the radial coordinate r . See the article published in *Journal of Electromagnetic Analysis and Applications*, 2010, Vol. 2, No. 12, pp. 672-676 by Afshin Moradi.

Journal of Electromagnetic Analysis and Applications (JEMAA)

Journal Information

SUBSCRIPTIONS

The *Journal of Electromagnetic Analysis and Applications* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$50 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©2010 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.

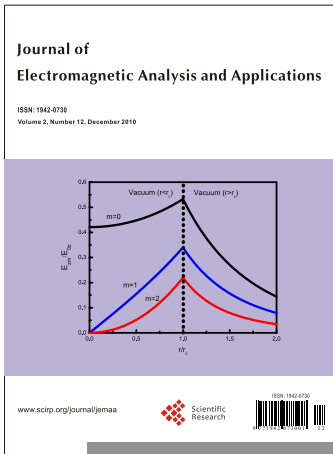
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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: jemaa@scirp.org



Journal of Electromagnetic Analysis and Applications

ISSN: 1942-0730 (Print), 1942-0749 (Online)
www.scirp.org/journal/jemaa

Journal of Electromagnetic Analysis and Applications (JEMAA) is a professional journal in the field of electromagnetic analysis, testing and application. The goal of this journal is to provide an international platform for engineers and academicians all over the world to promote, share, and discuss various new issues and developments in the field of electromagnetic. This journal is edited to encourage deeper understanding and greater effectiveness in theory analysis, testing, numerical calculation and engineering application that relevant electromagnetic fields.

Editors-in-Chief

Prof. James L. Drewniak
 Prof. Yuanzhang Sun

Electrical Engineering and Materials Science and Engineering, Missouri-Rolla, USA
 School of Electrical Engineering, Wuhan University, China

Subject Coverage

JEMAA publishes four categories of original technical reports: papers, communications, reviews, and discussions. Papers are well-documented final reports of research projects. Communications are shorter and contain noteworthy items of technical interest or ideas required rapid publication. Reviews are synoptic papers on a subject of general interest, with ample literature references, and written for readers with widely varying background. Discussions on published reports, with author rebuttals, form the fourth category of JEMAA publications. Topics of interest include, but are not limited to:

- Electromagnetic Numerical Analysis
- Multiphysics Coupled Problems
- Electromagnetic Inverse Problems
- Electromagnetic Structure Optimization
- Test Electromagnetic Analysis Method
- Workshop Benchmark Problems
- Electromagnetic Devices
- Electromagnetic Compatibility
- Electromagnetic Nondestructive Testing
- Electromagnetic Material Modelling

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. All papers will be peer reviewed. For more details about the submissions, please access the website.

Website and E-Mail

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

jemaa@scirp.org