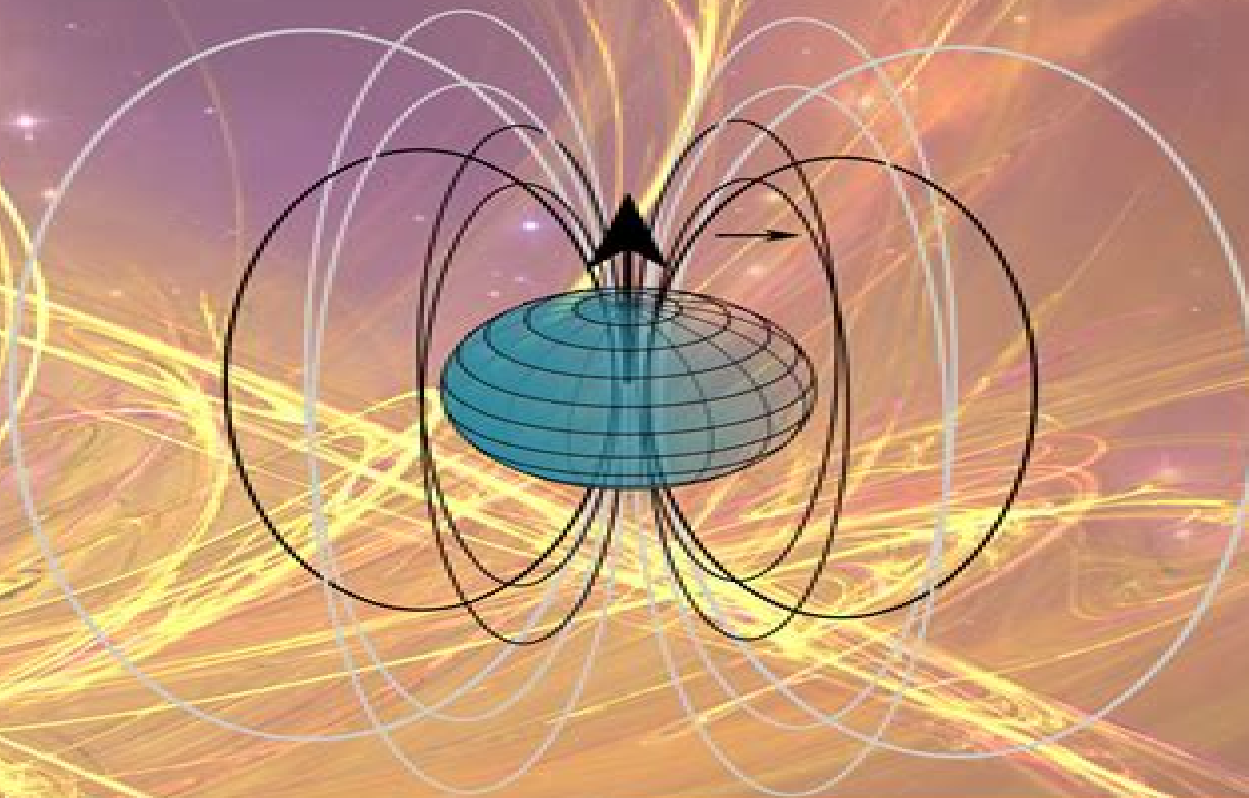


JOURNAL OF ELECTROMAGNETIC PHYSICS



Journal Of Electromagnetic Analysis And Applications

Janusz Turowski, Marek Turowski



Journal Of Electromagnetic Analysis And Applications:

A Tribute to the Iconoclastic Mathematician Dr Francisco Bulnes Helen Thrift,Michelle A. Musk,Yuri Stropovskiy,Sara Rains,David Cote,Daniel Álvarez-Cruz,2023-10-30 This book is a tribute to a universal mathematician whose contributions to pure and applied mathematics in various fields such as algebraic geometry mathematical physics infinite Lie theory astrophysics theoretical physics nanotechnology and electronics are relevant for the creation of future technologies and have facilitated a greater understanding of the universe The book contains various anecdotes of the academic experiences of Dr Francisco Bulnes and analyses of some of the contributions he made to his fields of study The book will be of great interest to PhD students providing them with motivation and inspiration for their own research projects as well as other researchers

Proceedings of the 2012 International Conference on Detection and Classification of Underwater Targets Vincent Myers,Isabelle Quidu,Benoit Zerr,2014-06-12 This book consists of the proceedings of the International Conference on Detection and Classification of Underwater Targets which took place in Brest France in October 2012 This collection of academic papers represents the current state of the art of research and development in the areas of sensor technology processing modeling and automation for the purpose of detecting and classifying objects in the underwater environment written by leading researchers in government industry and academia These articles should be of interest not only to those working on underwater target detection but also to researchers in the related fields of remote sensing robotic perception and medical imaging

Electromagnetic Nondestructive Evaluation (XVII) Klara Capova,2014 The demand for new and effective methods for the evaluation maintenance and live time testing of objects in fields as diverse as engineering medicine and art continues to grow Electromagnetic non destructive evaluation is a process by which an object can be assessed without permanent alteration by means of inducing electric currents or magnetic fields within the object and observing the electromagnetic response This book presents selected papers from the 18th International Workshop on Electromagnetic Non destructive Evaluation ENDE which was held in Bratislava Slovak Republic on June 25 28 2013 The aim of the workshop was to provide an international forum for the discussion of the state of the art and perspectives in the field from the view of science technology and engineering The book is divided into five main sections advanced sensors analytical and numerical modeling and biomedical applications innovative industrial applications new developments and solutions of inverse problems Containing 40 peer reviewed papers it will be of interest to all those whose work involves electromagnetic non destructive evaluation whatever their discipline

Characterization and Emulation of Low-Voltage Power Line Channels for Narrowband and Broadband Communication Han, Bin,2017-06-06 The demand for smart grid and smart home applications has raised the recent interest in power line communication PLC technologies and has driven a broad set of deep surveys in low voltage LV power line channels This book proposes a set of novel approaches to characterize and to emulate LV power line channels in the frequency range from 0.15 to 10 MHz which closes gaps between

the traditional narrowband up to 500 kHz and broadband above 1.8 MHz ranges Engineering Electrodynamics Janusz Turowski, Marek Turowski, 2017-12-19 Due to a huge concentration of electromagnetic fields and eddy currents large power equipment and systems are prone to crushing forces overheating and overloading Luckily power failures due to disturbances like these can be predicted and or prevented Based on the success of internationally acclaimed computer programs such as the authors own RNM 3D Engineering Electrodynamics Electric Machine Transformer and Power Equipment Design explains how to implement industry proven modeling and design techniques to solve complex electromagnetic phenomena Considering recent progress in magnetic and superconducting materials as well as modern methods of mechatronics and computer science this theory and application driven book Analyzes materials structure and 3D fields taking into account magnetic and thermal nonlinearities Supplies necessary physical insight for the creation of electromagnetic and electromechanical high power equipment models Describes parameters for electromagnetic calculation of the structural parts of transformers electric machines apparatuses and other electrical equipment Covers power frequency 50 60 Hz worldwide and US equipment applications Includes examples case studies and homework problems Engineering Electrodynamics Electric Machine Transformer and Power Equipment Design provides engineers students and academia with a thorough understanding of the physics principles modeling and design of contemporary industrial devices

Computational Electromagnetics and Its Applications Thomas G. Campbell, Roy A. Nicolaidis, Manuel D. Salas, 2012-12-06 This volume contains the proceedings of the first ICASE LaRC Work shop on Computational Electromagnetics and Its Applications conducted by the Institute for Computer Applications in Science and Engineering and NASA Langley Research Center We had several goals in mind when we decided jointly with the Electromagnetics Research Branch to organize this workshop on Computational Electromagnetics CEM Among our goals were a desire to obtain an overview of the current state of CEM covering both algorithms and applications and their effect on NASA's activities in this area In addition we wanted to provide an attractive setting for computational scientists with expertise in other fields especially computational fluid dynamics CFD to observe the algorithms and tools of CEM at work Our expectation was that scientists from both fields would discover mutually beneficial inter connections and relationships Another goal was to learn of progress in solution algorithms for electromagnetic optimization and design problems such problems make extensive use of field solvers and computational efficiency is at a premium To achieve these goals we assembled the renowned group of speakers from academia and industry whose talks are contained in this volume The papers are printed in the same order in which the talks were presented at the meeting The first paper is an overview of work currently being performed in the Electromagnetic Research Branch at the Langley Research Center **Smart Grid as a Solution for Renewable and Efficient Energy** Ahmad, Ayaz, Hassan, Naveed Ul, 2016-04-20 As the need for proficient power resources continues to grow it is becoming increasingly important to implement new strategies and technologies in energy distribution to meet

consumption needs The employment of smart grid networks assists in the efficient allocation of energy resources Smart Grid as a Solution for Renewable and Efficient Energy features emergent research and trends in energy consumption and management as well as communication techniques utilized to monitor power transmission and usage Emphasizing developments and challenges occurring in the field this book is a critical resource for researchers and students concerned with signal processing power demand management energy storage procedures and control techniques within smart grid networks

Haiduke Sarafian's Collective Articles 2020-2023 Haiduke Sarafian, 2023-05-08 Over the last three years 2020 2023 I have published articles in three areas of physics and Computational Mathematics in refereed journals of Scientific Research Publishing SCIRP These are the World Journal of Mechanics WJM the Journal of Electromagnetic Analysis and Applications JEMAA the Journal of Modern Physics JMP and the American Journal of Computational Mathematics AJCM All these are available online at <https://www.scirp.com> The motivation for publishing this book is to put these articles in one place in a book format so the interested individual would have access to all

Wearable Systems and Antennas Technologies for 5G, IOT and Medical Systems Albert Sabban, 2020-12-08 Due to progress in the development of communication systems it is now possible to develop low cost wearable communication systems A wearable antenna is meant to be a part of the clothing or close to the body and used for communication purposes which include tracking and navigation mobile computing and public safety Examples include smartwatches with integrated Bluetooth antennas glasses such as Google Glass with Wi Fi and GPS antennas GoPro action cameras with Wi Fi and Bluetooth antennas etc They are increasingly common in consumer electronics and for healthcare and medical applications However the development of compact efficient wearable antennas is one of the major challenges in the development of wearable communication and medical systems Technologies such as printed compact antennas and miniaturization techniques have been developed to create efficient small wearable antennas which are the main objective of this book Each chapter covers enough mathematical detail and explanations to enable electrical electromagnetic and biomedical engineers and students and scientists from all areas to follow and understand the topics presented New topics and design methods are presented for the first time in the area of wearable antennas metamaterial antennas and fractal antennas The book covers wearable antennas RF measurements techniques and measured results in the vicinity of the human body setups and design considerations The wearable antennas and devices presented in this book were analyzed by using HFSS and ADS 3D full wave electromagnetics software Explores wearable medical systems and antennas Explains the design and development of wearable communication systems Explores wearable reconfigurable antennas for communication and medical applications Discusses new types of metamaterial antennas and artificial magnetic conductors AMC Reviews textile antennas Dr Albert Sabban holds a PhD in Electrical Engineering from the University of Colorado at Boulder USA 1991 and an MBA from the Faculty of Management Haifa University Israel 2005 He is currently a Senior Lecturer and researcher at the Department of Electrical and Electronic

Engineering at Kinneret and Ort Braude Engineering Colleges **Recent Advances in Numerical Simulations** Francisco Bulnes, Jan Peter Hessling, 2021-09-22 A numerical simulation is a computing calculation following a program that develops a mathematical model for a physical social economic or biological system Numerical simulations are required for analyzing and studying the behavior of systems whose mathematical models are very complex as in the case of nonlinear systems Capturing the resulting uncertainty of models based on uncertain parameters and constraints in confidence intervals 1 D or more generally 1 D confidence regions is very common for expressing to which degree the computed result is believed to be consistent with possible values of the targeted observable This book examines the different methods used in numerical simulations including adaptive and stochastic methods as well as finite element analysis research This work is accompanied by studies of confidence regions often utilized to express the credibility of such calculations and simulations

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