

Advances in Information Technologies for Electromagnetics

Edited by

Luciano Tarricone
University of Lecce, Italy

and

Alessandra Esposito
University of Lecce, Italy

 **Springer**

Advances In Information Technologies For Electromagnetics

Paul R.P. Hoole



Advances In Information Technologies For Electromagnetics:

Advances in Information Technologies for Electromagnetics Luciano Tarricone, Alessandra Esposito, 2006

Electromagnetics and Network Theory and their Microwave Technology Applications Stefan Lindenmeier, Robert Weigel, 2011-07-13 This volume provides a discussion of the challenges and perspectives of electromagnetics and network theory and their microwave applications in all aspects It collects the most interesting contribution of the symposium dedicated to Professor Peter Russer held in October 2009 in Munich

Advances in Electromagnetic Geophysical Exploration Jin Li, James Gong, Cong Zhou, Xian Zhang, 2024-01-19 Electromagnetic exploration is one of the earliest and most widely used geophysical exploration techniques Electromagnetic methods such as magnetotelluric MT audio magnetotelluric AMT transient electromagnetic method TEM and controlled source electromagnetic method CSEM have made a great contribution to industrialization and urbanization by discovering underground deposits of various resources Driven by the latest progress in electronics and intelligent algorithms electromagnetic exploration is developing at a high speed Many challenges faced by traditional geophysical methods are now solvable Emerging sensing technology and signal processing technology greatly improves the accuracy of electromagnetic methods in many applications At the same time such technologies promoted the development of new geophysical theories and methods

Proceedings of the 6th International Conference on Electrical Engineering and Information Technologies for Rail Transportation (EITRT) 2023 Ming Gong, Limin Jia, Yong Qin, Jianwei Yang, Zhigang Liu, Min An, 2024-01-03 This book reflects the latest research trends methods and experimental results in the field of electrical and information technologies for rail transportation which covers abundant state of the art research theories and ideas As a vital field of research that is highly relevant to current developments in a number of technological domains the subjects it covered include intelligent computing information processing communication technology automatic control etc The objective of the proceedings is to provide a major interdisciplinary forum for researchers engineers academicians and industrial professionals to present the most innovative research and development in the field of rail transportation electrical and information technologies Engineers and researchers in academia industry and government will also explore an insightful view of the solutions that combine ideas from multiple disciplines in this field The volumes serve as an excellent reference work for researchers and graduate students working on rail transportation and electrical and information technologies

Smart Antennas and Electromagnetic Signal Processing in Advanced Wireless Technology Paul R.P. Hoole, 2022-09-01 The book addresses the current demand for a scientific approach to advanced wireless technology and its future developments It gives a clear presentation of both antennas and adaptive signal processing which is what makes antennas powerful maneuverable and necessary for advanced wireless technology The book presents electromagnetic signal processing techniques that both control the antenna beam and track the moving station which is required for effective fast dynamic beamforming The first part of the book presents a comprehensive description and analysis

of basic antenna theory starting from short dipole antennas to array antennas This section also includes important concepts related to antenna parameters electromagnetic wave propagation the Friis equation the radar equation and wave reflection and transmission through media The second part of the book focuses on smart antennas commencing from a look at the traditional approach to beamforming before getting into the details of smart antennas Complete derivation and description of the techniques for electromagnetic field signal processing techniques for adaptive beamforming are also presented Artificial Intelligence AI driven beamforming is presented using computationally fast and low memory demanding technique for AI beamforming is presented with the different excitation functions available A novel method for fast low memory and accurate maneuverable single beam generation is presented as well as other methods for beamforming with fewer elements along with a simple method for tracking the mobile antenna and station In this section for completeness the use of antenna signal processing for synthetic aperture techniques for imaging is also presented specifically the Inverse Synthetic Aperture Imaging technique The third part of the book presents technological aspects of advanced wireless technology including the 5G wireless system and the various devices needed to construct it While the books main emphasis is theoretical understanding and design it includes applications and legal matters are also presented *Advanced Materials and Information Technology Processing* Jun Qiao Xiong,2011-07-04 Selected peer reviewed papers from the 2011 International Conference on Advanced Materials and Information Technology Processing AMITP 2011 **Advanced Methodologies and Technologies in Government and Society** Khosrow-Pour, D.B.A., Mehdi,2018-11-02 Governments must continuously update policies laws and legislation as the world continues to rapidly evolve due to technologies and changing cultural perspectives To streamline policy creation and implementation governments seek new and efficient methods to ensure their citizens and communities safety while also encouraging citizen participation Advanced Methodologies and Technologies in Government and Society provides research on emerging methodologies in effective governing including sections on public sector management and socioeconomic development While highlighting the challenges facing government officials and law enforcement such as crisis response and natural disaster management this book shows how technology use can make those areas of government more efficient and improve preventative measures This book is an ideal resource for law enforcement government officials and agencies policymakers public servants citizen activists researchers and political leaders seeking cutting edge information to strengthen their government s relationship with society and their constituents while also strengthening their policy measures through new technology and methods **Advanced Computer Techniques in Applied Electromagnetics** Andrzej Krawczyk,Sławomir Wiak,Ivo Doležel,2008 Includes contributions on electromagnetic fields in electrical engineering which intends at joining theory and practice This book helps the world wide electromagnetic community both academic and engineering in understanding electromagnetism itself and its application to technical problems *Advanced Materials for Electromagnetic Shielding* Maciej Jaroszewski,Sabu Thomas,Ajay V. Rane,2018-11-29 A

comprehensive review of the field of materials that shield people and sensitive electronic devices from electromagnetic fields. **Advanced Materials for Electromagnetic Shielding** offers a thorough review of the most recent advances in the processing and characterization of the electromagnetic shielding materials. In this groundbreaking book, the authors, noted experts in the field, discuss the fundamentals of shielding theory as well as the practice of electromagnetic field measuring techniques and systems. They also explore applications of shielding materials used as absorbers of electromagnetic radiation or as magnetic shields and explore coverage of new advanced materials for EMI shielding in aerospace applications. In addition, the text contains methods of preparation and applicability of metal foams. This comprehensive text examines the influence of technology on the micro and macrostructure of polymers enabling their use in screening technology. Technologies of shielding materials based on textiles and analyses of its effectiveness in screening. The book also details the method of producing nanowires and their applications in EM shielding. This important resource explores the burgeoning market of electromagnetic shielding materials as we create, depend upon, and are exposed to more electronic devices than ever. Addresses the most comprehensive issues relating to electromagnetic fields. Contains information on the manufacturing, characterization methods, and properties of materials used to protect against them. Discusses the important characterization techniques compared with one another, thus allowing scientists to select the best approach to a problem. Written for materials scientists, electrical and electronics engineers, physicists, and industrial researchers. **Advanced Materials for Electromagnetic Shielding** explores all aspects in the area of electromagnetic shielding materials and examines the current state of the art and new challenges in this rapidly growing area. **Applications of Advanced Electromagnetics** Guennadi A. Kouzaev, 2024-12-31

This book addresses microwave researchers, engineers, and Master's and Ph.D. students. It follows the idea of the first Edition to educate the readers on fundamental electromagnetics and show how this brilliant theory is used in developing modern multi-physics microwave and terahertz hardware. The first three chapters discuss the main ideas and methods of electromagnetism explained in a manner that is clear for readers who have had some initial knowledge of electromagnetism. Chapters 4 and 5 are on transmission lines. The first text is on the integrated ones for digital applications which have been working since DC up to several tens or hundreds of gigahertz. The next chapter is on the waveguides for terahertz frequencies. In this book, the space-modulated signals application compared to the 1st Edition is considered using the example of a novel predicate variable logic processor designed and verified in an FPGA environment. Chapter 6: This idea, born initially in microwaves, allowed an eight logic style reconfigurable on-the-fly processor. Chapters 7-9 discuss microwaves in heating liquids and the initiation of rapid chemical reactions in novel miniature quasi-TEM wave reactors. Chapter 10 involves results on trapping and transporting ultra-cold matter using combined techniques. The new results described here are on numerical simulation of trapping of ultra-cold atoms in random 3D optical potentials using the Anderson effect. In conclusion, the author hopes this book will strengthen the young generation's interest in microwave field theory. He believes

that advanced electromagnetism combined with other physics branches will play a crucial role in developing new improved components and systems and this book is a stepping stone example in that journey

Electromagnetic Technologies in Food Science Vicente M. Gómez-López, Rajeev Bhat, 2021-11-30 A comprehensive source of in depth information provided on existing and emerging food technologies based on the electromagnetic spectrum Electromagnetic Technologies in Food Science examines various methods employed in food applications that are based on the entire electromagnetic EM spectrum Focusing on recent advances and challenges in food science and technology this is an up to date volume that features vital contributions coming from an international panel of experts who have shared both fundamental and advanced knowledge of information on the dosimetry methods and on potential applications of gamma irradiation electron beams X rays radio and microwaves ultraviolet visible pulsed light and more Organized into four parts the text begins with an accessible overview of the physics of the electromagnetic spectrum followed by discussion on the application of the EM spectrum to non thermal food processing The physics of infrared radiation microwaves and other advanced heating methods are then deliberated in detail supported by case studies and examples that illustrate a range of both current and potential applications of EM based methods The concluding section of the book describes analytical techniques adopted for quality control such as hyperspectral imaging infrared and Raman spectroscopy This authoritative book resource Covers advanced theoretical knowledge and practical applications on the use of EM spectrum as novel methods in food processing technology Discusses the latest progress in developing quality control methods thus enabling the control of continuous fast speed processes Explores future challenges and benefits of employing electromagnetic spectrum in food technology applications Addresses emerging processing technologies related to improving safety preservation and overall quality of various food commodities

Electromagnetic Technologies in Food Science is an essential reading material for undergraduate and graduate students researchers academics and agri food professionals working in the area of food preservation novel food processing techniques and sustainable food production

Advanced Technologies for Physical Properties Measurement of Food and its Processing Hao Lin, Lei Zhang, Quansheng Chen, Man Zhou, Leiqing Pan, Qin Ouyang, Solomon Yao-Say Selorm Adade, Yanyu Li, 2025-02-11 This book provides a comprehensive overview of the physical properties of foods and the cutting edge technologies employed to measure them Delving into key topics such as optical thermal acoustic rheological and textural properties it provides a detailed examination of principles measurement methods and applications in food quality evaluation While it discusses advanced technologies such as near infrared spectroscopy computer vision spectral imaging acoustic resonance analysis electronic noses tongues eyes and multi sensor data fusion in detail the book also introduces intelligent equipment design and real time quality monitoring systems for the food industry including emerging technologies like 4D printing and terahertz technology The book also addresses critical questions about the application of these technologies in real world scenarios making it a must read for those seeking to understand and apply the latest advancements in food science This book is an

invaluable resource for undergraduate and graduate students researchers and professionals in food science and engineering It helps readers understand the principles of various non destructive food quality measurement techniques and applies them to in situ evaluation and in field monitoring It also serves as both a textbook and a reference guide enabling readers to understand and apply advanced measurement and processing techniques for in situ evaluation and in field monitoring By providing a thorough understanding of the principles and applications of food physical properties this book ensures that its audience remains at the forefront of technological advancements in the field The book contains several chapters originally written in the Chinese language The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content *Electromagnetic Non-Destructive Evaluation (XXIII)* G.Y. Tian,B. Gao,2020-11-03

Electromagnetic Non destructive Evaluation ENDE is an invaluable non invasive diagnostic tool for the inspection testing evaluation and characterization of materials and structures It has now become indispensable in a number of diverse fields ranging from biomedics to many branches of industry and engineering This book presents the proceedings of the 24th International Workshop on Electromagnetic Nondestructive Evaluation held in Chengdu China from 11 14 September 2019 The 38 peer reviewed and extended contributions included here were selected from 45 original submissions and are divided into 7 sections eddy current testing and evaluation advanced sensors analytical and numerical modeling material characterization inverse problem and signal processing artificial intelligence in ENDE and industrial applications of ENDE The papers cover recent studies concerning the progress and application of electromagnetic EM fields in the non destructive examination of materials and structures and topics covered include evaluations at a micro structural level such as correlating the magnetic properties of a material with its grain structure and a macroscopic level such as techniques and applications for EM NDT E Recent developments and emerging materials such as advanced EM sensors multi physics NDT E intelligent data management and maintaining the integrity of structures are also explored The book provides a current overview of developments in ENDE and will be of interest to all those working in the field Advanced Information Networking and Applications Leonard Barolli,2023-03-19

Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks This volume covers the theory design and applications of computer networks distributed computing and

information systems The aim of the volume Advanced Information Networking and Applications is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications *Federal Information Systems and Plans--Federal Use and Development of Advanced Information Technology: Federal use and development of advanced information technology* United States. Congress. House. Committee on Government Operations. Foreign Operations and Government Information Subcommittee,1973 Recent Advances in Systems, Control and Information Technology Roman Szewczyk, Małgorzata Kaliczyńska, 2016-11-29 This book presents the proceedings of the International Conference on Systems Control and Information Technologies 2016 It includes research findings from leading experts in the fields connected with INDUSTRY 4.0 and its implementation especially intelligent systems advanced control information technologies industrial automation robotics intelligent sensors metrology and new materials Each chapter offers an analysis of a specific technical problem followed by a numerical analysis and simulation as well as the implementation for the solution of a real world problem **Recent Advances and Allied Applications of MXenes** Inamuddin, 2024-01-15 Since 2011 the MAX phase derivatives MXenes are constantly expanding in terms of crystallographic and composition variability Several advancements have been made in the previous few years that have accelerated the production of novel MXenes with better chemical diversification and crystal structures This book is intended to present the latest applicational advancements of MXenes in diversified sectors Keywords MAX Phase MXene MXene Based Composite MXene Symmetric Supercapacitor MXene Asymmetric Supercapacitor MXene Micro Supercapacitor MXene Transparent Supercapacitor 2D Materials EMI shielding Nanophotonics MXenes in Photodetectors MXenes in Electrocatalysis **Advanced Materials and Design for Electromagnetic Interference Shielding** Xingcun Colin Tong, 2016-04-19 With electromagnetic compliance EMC now a major factor in the design of all electronic products it is crucial to understand how electromagnetic interference EMI shielding products are used in various industries Focusing on the practicalities of this area Advanced Materials and Design for Electromagnetic Interference Shielding comprehensively Progress in Advanced Information and Communication Technology and Systems Mykhailo Ilchenko, Leonid Uryvsky, Larysa Globa, 2022-11-17 This book highlights the most important research areas in information and communication technologies namely the research in fields of modern information technologies that deal with various aspects of the analysis and solution of practically important issues of information systems in general and contains discussion about the progression from big data to smart data development of cloud based architecture practical implementation of Internet of Things IoT the fundamentals of information and analytical activities studying of modern communication technologies contains original works dealing with many aspects of construction using research and forecasting of technological and services characteristics of communication systems as well as research of modern radio electronics technologies that contains actual papers which show some effective technological solutions that can

be used for the implementation of novel radio electronics systems These results can be used in the implementation of novel systems and to promote information exchange in e societies This book offers a valuable resource for scientists lecturers specialists working at enterprises and graduate and undergraduate students who engage with problems in information and communication technologies Congressional Record United States. Congress,2002

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