

Download Ebook Ulaby Fundamentals Of Applied Electromagnetics Solutions Pdf For Free

Electromagnetics Jan 06 2022 During the last twenty years the lifestyle of a large portion of the inhabitants of our planet has changed dramatically. This would never have been possible without the massive use of electronic and photonic technology, telecommunications, and computers. These disciplines are designed to code, transmit, detect, decode, and process signals and related information, and can be broadly addressed as information science and technology. In the sophisticated society in which we live and operate, this science is diffused transversely and plays a major role in almost every human activity. Information science and technology is the basis of a powerful industry that does not suffer the shortcomings of more traditional human enterprises. Information is a renewable source and its control and processing rely on software codes, which are a creation of the mind, and on related hardware, incredibly sophisticated but made out of simple, abundant materials. The rate of change and transformation of this industry is the highest mankind has ever experienced, and it requires not only the replacement of technologies but also a continuous updating of expertise to keep up with the rapid transformation. There is no doubt that this calls for a

change in university training, to avoid students graduating at an already obsolete level.

Operator Theory for Electromagnetics Dec 13 2019 This text discusses electromagnetics from the view of operator theory, in a manner more commonly seen in textbooks of quantum mechanics. It includes a self-contained introduction to operator theory, presenting definitions and theorems, plus proofs of the theorems when these are simple or enlightening.

Intelligent Computer Techniques in Applied Electromagnetics Jul 12 2022 This book contains papers presented at the International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering ISEF'07 which was held in Prague, the Czech Republic, from September 13 to 15, 2007. ISEF conferences have been organized since 1985 and from the very beginning it was a common initiative of Polish and other European researchers who have dealt with electromagnetic field in electrical engineering. The conference travels through Europe and is organized in various academic centres. Relatively often, it was held in some Polish city as the initiative was on the part of Polish scientists. Now ISEF is much more international and successive events take place in different European academic centres renowned for electromagnetic research. This time it was Prague, famous for its beauty and historical background, as it is the place where many cultures mingle. The venue of the conference was the historical building of Charles University, placed just in the centre of Prague. The Technical University of Prague, in turn, constituted the logistic centre of the conference. It is the tradition of the ISEF meetings that they try to tackle quite a vast area of computational and applied electromagnetics. Moreover, the ISEF symposia aim at combining theory and practice; therefore the majority of papers are deeply rooted in engineering problems, being simultaneously of a high theoretical level.

Applied Electromagnetics and Electromagnetic Compatibility Dec 05 2021 Applied Electromagnetics

and Electromagnetic Compatibility deals with Radio Frequency Interference (RFI), which is the reception of undesired radio signals originating from digital electronics and electronic equipment. With today's rapid development of radio communication, these undesired signals as well as signals due to natural phenomena such as lightning, sparking, and others are becoming increasingly important in the general area of Electro Magnetic Compatibility (EMC). EMC can be defined as the capability of some electronic equipment or system to be operated at desired levels of performance in a given electromagnetic environment without generating EM emissions unacceptable to other systems operating in the vicinity.

An Introduction to Classical Electromagnetic Radiation Jan 26 2021 This book provides a thorough description of classical electromagnetic radiation, starting from Maxwell's equations, and moving on to show how fundamental concepts are applied in a wide variety of examples from areas such as classical optics, antenna analysis, and electromagnetic scattering. Throughout, the author interweaves theoretical and experimental results to help give insight into the physical and historical foundations of the subject. A key feature of the book is that pulsed and time-harmonic signals are presented on an equal footing. Mathematical and physical explanations are enhanced by a wealth of illustrations (over 300), and the book includes more than 140 problems. It can be used as a textbook for advanced undergraduate and graduate courses in electrical engineering and physics, and will also be of interest to scientists and engineers working in applied electromagnetics. A solutions manual is available on request for lecturers adopting the text.

Finite Elements for Electrical Engineers Jun 18 2020 Like the earlier editions, this text begins by deriving finite elements for the simplest familiar potential fields, then advances to formulate finite elements for a wide range of applied electromagnetics problems. A wide selection of demonstration

programs allows the reader to follow the practical use of the methods.

Advanced Computer Techniques in Applied Electromagnetics Nov 16 2022 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.

Solutions Manual for Shen and Kong's Applied Electromagnetism Dec 17 2022

An Introduction to Applied Electromagnetics and Optics Feb 07 2022 Modern technology is rapidly developing and for this reason future engineers need to acquire advanced knowledge in science and technology, including electromagnetic phenomena. This book is a contemporary text of a one-semester course for junior electrical engineering students. It covers a broad spectrum of electromagnetic phenomena such as, surface waves, plasmas, photonic crystals, negative refraction as well as related materials including superconductors. In addition, the text brings together electromagnetism and optics as the majority of texts discuss electromagnetism disconnected from optics. In contrast, in this book both are discussed. Seven labs have been developed to accompany the material of the book.

Applied Electromagnetics Sep 14 2022

Handbook of Aerospace Electromagnetic Compatibility Nov 04 2021 A comprehensive resource that explores electromagnetic compatibility (EMC) for aerospace systems Handbook of Aerospace Electromagnetic Compatibility is a groundbreaking book on EMC for aerospace systems that addresses both aircraft and space vehicles. With contributions from an international panel of aerospace EMC experts, this important text deals with the testing of spacecraft components and subsystems, analysis of crosstalk and field coupling, aircraft communication systems, and much

more. The text also includes information on lightning effects and testing, as well as guidance on design principles and techniques for lightning protection. The book offers an introduction to E3 models and techniques in aerospace systems and explores EMP effects on and technology for aerospace systems. Filled with the most up-to-date information, illustrative examples, descriptive figures, and helpful scenarios, Handbook of Aerospace Electromagnetic Compatibility is designed to be a practical information source. This vital guide to electromagnetic compatibility:

- Provides information on a range of topics including grounding, coupling, test procedures, standards, and requirements
- Offers discussions on standards for aerospace applications
- Addresses aerospace EMC through the use of testing and theoretical approaches

Written for EMC engineers and practitioners, Handbook of Aerospace Electromagnetic Compatibility is a critical text for understanding EMC for aerospace systems.

Electromagnetic Nondestructive Evaluation (III) Jan 14 2020 THE BEST AMERICAN ESSAYS, Seventh College Edition, presents highly regarded contemporary authors at their best. The essays are thematically arranged and selected from the popular trade series of the same name. They also cover common rhetorical modes, including narration and argumentation, providing instructors optimal flexibility with respect to course approach. In the introduction, Robert Atwan offers an overview of various types of essays to prepare students for the readings that follow. To further prepare students, "Essayists on the Essay" offers insightful commentaries about the genre from many of today's top writers. Available with InfoTrac Student Collections
<http://gocengage.com/infotrac>.

Parallel Solution of Integral Equation-Based EM Problems in the Frequency Domain Aug 01 2021 A step-by-step guide to parallelizing cem codes The future of computational electromagnetics is

changing drastically as the new generation of computer chips evolves from single-core to multi-core. The burden now falls on software programmers to revamp existing codes and add new functionality to enable computational codes to run efficiently on this new generation of multi-core CPUs. In this book, you'll learn everything you need to know to deal with multi-core advances in chip design by employing highly efficient parallel electromagnetic code. Focusing only on the Method of Moments (MoM), the book covers: In-Core and Out-of-Core LU Factorization for Solving a Matrix Equation A Parallel MoM Code Using RWG Basis Functions and ScaLAPACK-Based In-Core and Out-of-Core Solvers A Parallel MoM Code Using Higher-Order Basis Functions and ScaLAPACK-Based In-Core and Out-of-Core Solvers Turning the Performance of a Parallel Integral Equation Solver Refinement of the Solution Using the Conjugate Gradient Method A Parallel MoM Code Using Higher-Order Basis Functions and Plapack-Based In-Core and Out-of-Core Solvers Applications of the Parallel Frequency Domain Integral Equation Solver Appendices are provided with detailed information on the various computer platforms used for computation; a demo shows you how to compile ScaLAPACK and PLAPACK on the Windows® operating system; and a demo parallel source code is available to solve the 2D electromagnetic scattering problems. Parallel Solution of Integral Equation-Based EM Problems in the Frequency Domain is indispensable reading for computational code designers, computational electromagnetics researchers, graduate students, and anyone working with CEM software.

Applied Electromagnetics Jul 20 2020

Harmonic Balance Finite Element Method Sep 21 2020 The first book applying HBFEM to practical electronic nonlinear field and circuit problems • Examines and solves wide aspects of practical electrical and electronic nonlinear field and circuit problems presented by HBFEM •

Combines the latest research work with essential background knowledge, providing an all-encompassing reference for researchers, power engineers and students of applied electromagnetics analysis • There are very few books dealing with the solution of nonlinear electric- power-related problems • The contents are based on the authors' many years' research and industry experience; they approach the subject in a well-designed and logical way • It is expected that HBFEM will become a more useful and practical technique over the next 5 years due to the HVDC power system, renewable energy system and Smart Grid, HF magnetic used in DC/DC converter, and Multi-pulse transformer for HVDC power supply • HBFEM can provide effective and economic solutions to R&D product development • Includes Matlab exercises

Proceedings of the Tenth International Symposium on Applied Electromagnetic and Mechanics Nov 11 2019 This publication covers topics in the area of applied electromagnetics and mechanics. Since starting in Japan in 1988, the ISEM has become a well-known international forum on applied electromagnetics.

New Foundations for Applied Electromagnetics: The Spatial Structure of Electromagnetic Fields Jan 18 2023 This comprehensive new resource focuses on applied electromagnetics and takes readers beyond the conventional theory with the use of contemporary mathematics to improve the practical use of electromagnetics in emerging areas of field communications, wireless power transfer, metamaterials, MIMO and direction-of-arrival systems. The book explores the existing and novel theories and principles of electromagnetics in order to help engineers analyze and design devices for today's applications in wireless power transfers, NFC, and metamaterials. This book is organized into clear and logical sections spanning from fundamental theory, to applications, promoting clear understanding through-out. This resource presents the theory of electromagnetic near fields

including chapters on reactive energy, spatial and spectral theory, the scalar antenna, and the morphogenesis of electromagnetic radiation in the near field zone. The Antenna Current Green's Function Formalism is explored with an emphasis on the foundations, the organic interrelationships between the fundamental operational modes of general antenna systems, and the spectral approach to antenna-to-antenna interactions. The book offers perspective on nonlocal metamaterials, including the material response theory, the far-field theory, and the near-field theory.

Analytical Modeling in Applied Electromagnetics Jun 30 2021 Analytical Modeling in Applied Electromagnetics encompasses the most complete treatment on the subject published to date, focusing on the nature of models in radio engineering. This leading-edge resource brings you detailed coverage of the latest topics, including metamaterials, photonic bandgaps and artificial impedance surfaces, and applies these concepts to a wide range of applications. The book provides you with working examples that are mainly directed to antenna applications, but the modeling methods and results can be used for other practical devices as well.

Fundamentals of Applied Electromagnetics Feb 19 2023

Interdisciplinary Electromagnetic, Mechanic and Biomedical Problems Feb 13 2020 The International Symposium on Applied Electromagnetics and Mechanics (ISEM) is an interdisciplinary international forum. This title concerns 12th event and was organized by following three institutions: Vienna Magnetics Group, TU BioMed - Society for Biomedical Engineering, Bioelectricity & Magnetism Lab; and the Vienna University of Technology.

Engineering Mathematics I Oct 11 2019 This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant for applications in modern technologies and

engineering. In particular, it features mathematical methods and models of applied analysis, probability theory, differential equations, tensor analysis and computational modelling used in applications to important problems concerning electromagnetics, antenna technologies, fluid dynamics, material and continuum physics and financial engineering. The individual chapters cover both theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the book.

Fundamentals of Engineering Electromagnetics May 30 2021 Electromagnetics is too important in too many fields for knowledge to be gathered on the fly. A deep understanding gained through structured presentation of concepts and practical problem solving is the best way to approach this important subject. *Fundamentals of Engineering Electromagnetics* provides such an understanding,

distilling the most important theoretical aspects and applying this knowledge to the formulation and solution of real engineering problems. Comprising chapters drawn from the critically acclaimed Handbook of Engineering Electromagnetics, this book supplies a focused treatment that is ideal for specialists in areas such as medicine, communications, and remote sensing who have a need to understand and apply electromagnetic principles, but who are unfamiliar with the field. Here is what the critics have to say about the original work "...accompanied with practical engineering applications and useful illustrations, as well as a good selection of references ... those chapters that are devoted to areas that I am less familiar with, but currently have a need to address, have certainly been valuable to me. This book will therefore provide a useful resource for many engineers working in applied electromagnetics, particularly those in the early stages of their careers." -Alastair R. Ruddle, The IEE Online "...a tour of practical electromagnetics written by industry experts ... provides an excellent tour of the practical side of electromagnetics ... a useful reference for a wide range of electromagnetics problems ... a very useful and well-written compendium..." -Alfy Riddle, IEEE Microwave Magazine

Fundamentals of Engineering Electromagnetics lays the theoretical foundation for solving new and complex engineering problems involving electromagnetics.

Applied Electromagnetics May 18 2020 Electromagnetic theory has been a basic subject taught for more than a century to physics students but not to the electrical-engineering student. Before the Second World War the engineer was well grounded in circuit theory but was notoriously weak in field theory; by and large he might have heard of Maxwell's equations but he certainly did not use them. Since the Second World War, many factors have greatly changed the engineer's outlook; particularly the astonishing advances in electronics, in communications (particularly microwaves) and more recently in solid-state devices. Consequently, a basic course in electromagnetics and

applications has been included in most first-degree courses in electrical and electronic engineering since about 1950. The many earlier excellent texts available were unsuitable for engineering courses in electromagnetics for two reasons. First, they had been written from the point of view of the physicist, being more concerned with basic principles than with applications. Second, the introduction of SI (rationalised MKS) units meant that these earlier texts needed to be revised. Consequently the new texts in this subject have been in the main written by and for electrical engineers: as examples see the books by Skilling, Cullwick, Carter, Hayt, and Lorrain and Corson. These excellent texts have been found too advanced and too lengthy for the short time allocated to electromagnetism at Nottingham, that is about fifteen lecture hours in the first year and about twenty in the second year.

Applied Electromagnetics in Materials Mar 28 2021 The proceedings of this International Symposium focus on recent advances and current research in the study of electromagnetic phenomena in advanced materials, and the potential applications of such research in a variety of areas, including non-destructive testing, steel-making, and nuclear and electrical engineering. Also discussed is the effect of electromagnetic fields on the micro- and macromechanics of solid materials, and the application of electromagnetics to the preparation and characterization of new superconducting materials. This is a valuable account of current research in an increasingly topical area which will be of interest to materials scientists working on advanced materials and to electrical, mechanical and nuclear engineers interested in the application of electromagnetic forces in industry.

Applied Electromagnetics Oct 15 2022 STUDENT COMPANION SITE Every new copy of Stuart Wentworth's Applied Electromagnetics comes with a registration code which allows access to the

Student's Book Companion Site. On the BCS the student will find: * Detailed Solutions to Odd-Numbered Problems in the text * Detailed Solutions to all Drill Problems from the text * MATLAB code for all the MATLAB examples in the text * Additional MATLAB demonstrations with code. This includes a Transmission Lines simulator created by the author. * Weblinks to a vast array of resources for the engineering student. Go to www.wiley.com/college/wentworth to link to Applied Electromagnetics and the Student Companion Site. ABOUT THE PHOTO Passive RFID systems, consisting of readers and tags, are expected to replace bar codes as the primary means of identification, inventory and billing of everyday items. The tags typically consist of an RFID chip placed on a flexible film containing a planar antenna. The antenna captures radiation from the reader's signal to power the tag electronics, which then responds to the reader's query. The PENI Tag (Product Emitting Numbering Identification Tag) shown, developed by the University of Pittsburgh in a team led by Professor Marlin H. Mickle, integrates the antenna with the rest of the tag electronics. RFID systems involve many electromagnetics concepts, including antennas, radiation, transmission lines, and microwave circuit components. (Photo courtesy of Marlin H. Mickle.)

Applied Electromagnetism Mar 16 2020 Included topics: Electromagnetism and Electrical Engineering, Electromagnetic Fields and their Sources, Time-varying Currents and Fields in Conductors, Electromagnetic Radiation I, Electromagnetic Problems.

The Origin of Spurious Solutions in Computational Electromagnetics Aug 21 2020

Proceedings of the Tenth International Symposium on Applied Electromagnetic and Mechanics Dec 25 2020 This publication covers topics in the area of applied electromagnetics and mechanics. Since starting in Japan in 1988, the ISEM has become a well-known international forum on applied electromagnetics.

Industrial Electromagnetics Modelling Oct 03 2021 During the past few years the rapid development of computer technology has made high power computing facilities more readily accessible to a greater proportion of our industrial and academic community. This development coupled with the recent upsurge in mathematical modelling and computer simulation has led to significant developments in electromagnetic field theory and its applications to industry. In view of such developments and the present high interest to both academics and industry the theme chosen for the Polymodel 6 Conference held at Newcastle upon Tyne in May 1983 was Industrial Electromagnetics Modelling. To date the North East Polytechnics Mathematical Modelling and Computer Simulation Group has organised five successful Polymodel conferences each with a different theme. The objectives of the Polymodel group include the promotion of collaborative research between Newcastle, Sunderland and Teesside Polytechnics and industry in the areas of mathematical modelling and computer simulation. The aim of the Polymodel 6 Conference was to call on and use the modelling and computer simulation expertise of eminent academics and industrialists who are deeply involved in the area of electromagnetics. These proceedings have a twofold purpose in that they contain current analytical and numerical techniques relevant to electromagnetic field problems and useful ideas on the modelling and simulation techniques which are most appropriate. It was also felt important to include implications of computer developments (both hardware and software) on such work.

Electromagnetics and Calculation of Fields Apr 16 2020 This introduction to electromagnetic fields emphasizes the computation of fields and the development of theoretical relations. It presents the electromagnetic field and Maxwell's equations with a view toward connecting the disparate applications to the underlying relations, along with computational methods of solving the equations.

Theory and Applications of Applied Electromagnetics Jun 11 2022 In this book, experts from academia and industry present the latest advances in scientific theory relating to applied electromagnetics and examine current and emerging applications particularly within the fields of electronics, communications, and computer technology. The book is based on presentations delivered at APPEIC 2014, the 1st Applied Electromagnetic International Conference, held in Bandung, Indonesia in December 2014. The conference provided an ideal platform for researchers and specialists to deliver both theoretically and practically oriented contributions on a wide range of topics relevant to the theme of nurturing applied electromagnetics for human technology. Many novel aspects were addressed, and the contributions selected for this book highlight the relevance of advances in applied electromagnetics to a variety of industrial engineering problems and identify exciting future directions for research.

Filter Design Solutions for RF systems Apr 28 2021 This Special Issue focuses on the state-of-the-art results from the definition and design of filters for low- and high-frequency applications and systems. Different technologies and solutions are commonly adopted for filter definition, from electrical to electromechanical and mechanical solutions, from passive to active devices, and from hybrid to integrated designs. Aspects related to both theoretical and experimental research in filter design, CAD modeling and novel technologies and applications, as well as filter fabrication, characterization and testing, are covered. The proposed research articles deal with different topics as follows: Modeling, design and simulation of filters; Processes and fabrication technologies for filters; Automated characterization and test of filters; Voltage and current mode filters; Integrated and discrete filters; Passive and active filters; Variable filters, characterization and tunability.

Applied Electromagnetics Using QuickField and MATLAB Apr 09 2022 Intended As A Textbook For

Electromagnetics Or A Reference For Practicing Engineers, The Book Uses The Computer Software Packages Quickfield And MATLAB For Visualizing Electric And Magnetic Fields, And For Calculating Their Resulting Forces, Charge, And Current Distributions. The Concepts Of Electromagnetism "Come Alive" As The Readers Model Real World Problems And Experiment With Currents In Biological Tissue Under Electrical Stimulation, For Superconducting Magnetic Shielding, Monte Carlo Methods, Etc. The Accompanying CD Includes A Fully Functional Version Of Quickfield (Widely Used In Industry), As Well As Numerous Demonstrations And Simulations With MATLAB. *Computer Engineering in Applied Electromagnetism* Sep 02 2021 Computer Engineering in Applied Electromagnetism contains papers which were presented at the International Symposium on Electromagnetic Fields in Electrical Engineering, held in Maribor, Slovenia, 18-20 September 2003. It consists of three parts, Computational Techniques, Electromagnetic Engineering, and Special Applications. The contributions selected for the book cover a wide spectrum of theory and practice, being simultaneously of high theoretical level and deeply rooted in engineering problems. Thus, this volume touches on what is of key importance in electromagnetism.

Analytical Solutions for Two Ferromagnetic Nanoparticles Immersed in a Magnetic Field Mar 08 2022 The investigation of the behavior of ferromagnetic particles in an external magnetic field is important for use in a wide range of applications in magnetostatics problems, from biomedicine to engineering. To the best of the author's knowledge, the systematic analysis for this kind of investigation is not available in the current literature. Therefore, this book contributes a complete solution for investigating the behavior of two ferromagnetic spherical particles, immersed in a uniform magnetic field, by obtaining exact mathematical models on a boundary value problem. While there are a vast number of common numerical and analytical methods for solving boundary value

problems in the literature, the rapidly growing complexity of these solutions causes increase usage of the computer tools in practical cases. We analytically solve the boundary value problem by using a special technique called a bispherical coordinates system and the numerical computations were obtained by a computer tool. In addition to these details, we will present step-by-step instructions with simple explanations throughout the book, in an effort to act as inspiration in the reader's own modeling for relevant applications in science and engineering. On the other hand, the resulting analytical expressions will constitute benchmark solutions for specified geometric arrangements, which are beneficial for determining the validity of other relevant numerical techniques. The generated results are analyzed quantitatively as well as qualitatively in various approaches. Moreover, the methodology of this book can be adopted for real-world applications in the fields of ferrohydrodynamics, applied electromagnetics, fluid dynamics, electrical engineering, and so forth. Higher-level university students, academics, engineers, scientists, and researchers involved in the aforementioned fields are the intended audience for this book.

Fundamentals of Applied Electromagnetics May 10 2022 Fundamentals of Applied Electromagnetics: Incl CDRom.

Isem 03 Oct 23 2020 This publication contains a selection of 124 papers among the 165 full-length contributions which were submitted on-site at ISEM 2003. The objective of the symposia series is to vigorously promote the research in the field of electro-mechanical systems. The reader will, we hope, appreciate the variety of topics that were addressed. This is what makes ISEM so stimulating for whoever is interested in the applications of electromagnetics and its opening toward many technical fields. Yet, this publication does not intend to be a mosaic of sub-disciplines, but aims at their integration and synergy. This will be demonstrated by the present selection.

Fundamentals of Applied Electromagnetics, Global Edition Feb 24 2021 For courses in electromagnetics. Bridging the gap between circuits and electromagnetics Widely acclaimed in the field, this authoritative text bridges the gap between circuits and electromagnetics material. Fundamentals of Applied Electromagnetics begins coverage with transmission lines, leading students from familiar concepts into more advanced topics and applications. The 8th Edition builds on the core content and style of previous editions, retaining the student-friendly approach and hands-on simulation modules that help students develop a deeper understanding of electromagnetic concepts and applications. Enhanced graphs and illustrations and an expanded scope of topics in the Technology Briefs, establish additional bridges between electromagnetic fundamentals and their countless engineering and scientific applications. This title is also available digitally as a standalone Pearson eText. This option gives students affordable access to learning materials, so they come to class ready to succeed.

Applied Electromagnetics and Computational Technology II Aug 13 2022 The Fifth Japan-Hungary Joint Seminar on Applied Electromagnetics in Materials and Computational Technology is held on September 24-26, 1998 in Budapest, Hungary. The Seminar is organised by the Super Tech Consortium (Hungary), the Hungarian Society of Applied Electronics (Hungary) and the Japan Society of Applied Electromagnetics and Mechanics (Japan). The objective of the Seminar is to stimulate the exchange of creative ideas, to promote new achievements by bringing together the engineers and scientists of Japan and Hungary working in the field of applied electromagnetics and related areas as well as to discuss the topics of future co-operative research. A special attention will be paid for the work of young scientists. The scientific program covers the following topics: - Numerical Analysis of Electromagnetic Fields - Material Modelling in Electromagnetic Fields -

Electromagnetic Non-destructive Testing and Inverse Problems - High Tc Superconducting Materials and Applications - Controlled Electrical Drives This book will be published as the Proceedings of the Fifth Japan-Hungary Joint Seminar including the selected papers which are presented at the Seminar.

The Method of the Generalised Eikonal Nov 23 2020 Diffraction theory describes scattering mechanisms for waves of various physical nature, scattered by objects of different shapes and materials. This book proposes new methods to account for the contour shape, edge profile and boundary conditions of three-dimensional scatterers (in particularly, flat polygons and polyhedrals). A standard method to refine the physical optics approximation (PO) is the heuristic method of edge waves (MEW). In comparison with MEW, the presented approaches simplify the solving and refining the PO approximation without solving a corresponding two-dimensional problem. Furthermore these methods allow to take into account the field perturbation in the vicinity of vertices. While the analytical formulas obtained by using these new approaches are as simple as in the PO case, the accuracy can be even higher than for MEW. On the basis of the developed methods construction of solutions for wave propagation in urban area and elastic wave diffraction (including seismic waves) are proposed. The book is useful for specialists who solve scientific and engineering problems in wave propagation and for students and postgraduate students.

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