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this authoritative resource offers you clear and complete explanation of this essential electromagnetics knowledge providing you with the analytical background you need to understand such key approaches as mom method of moments fdtd finite difference time domain and fem finite element method and green s functions this comprehensive book includes all math necessary to master the material

annotation this practical how to book is an ideal introduction to electromagnetic field solvers where most books in this area are strictly theoretical this unique resource provides engineers with helpful advice on selecting the right tools for their rf radio frequency and high speed digital circuit design work

providing an ideal transition from introductory to advanced concepts electromagnetics second edition builds a foundation that allows electrical engineers to confidently proceed with the development of advanced em studies research and applications this second edition of a popular text continues to offer coverage that spans the entire field from electrostatics to the integral solutions of maxwell s equations the book provides a firm grounding in the fundamental concepts of electromagnetics and bolsters understanding through the use of classic examples in shielding transmission lines waveguides propagation through various media radiation antennas and scattering mathematical appendices present helpful background information in the areas of fourier transforms dyadics and boundary value problems the second edition adds a new and extensive chapter on integral equation methods with applications to guided waves antennas and scattering utilizing the engaging style that made the first edition so appealing this second edition continues to emphasize the most enduring and research critical electromagnetic principles

field solutions on computers covers a broad range of practical applications involving electric and magnetic fields the text emphasizes finite element techniques to solve real world problems in research and industry after introducing numerical methods with a thorough treatment of electrostatics the book moves in a structured sequence to advanced topics these include magnetostatics with non linear materials permanent magnet devices rf heating eddy current analysis electromagnetic pulses microwave structures and wave scattering the mathematical derivations are supplemented with chapter exercises and comprehensive reviews of the underlying physics the book also covers essential supporting techniques such as mesh generation interpolation sparse matrix inversions and advanced plotting routines

elements of electromagnetics fourth edition uses a vectors first approach to explain electrostatics magnetostatics fields waves and applications like transmission lines waveguides and antennas it also provides a balanced presentation of time varying and static fields preparing students for employment in today s industrial and manufacturing sectors streamlined to facilitate student

understanding this edition features worked examples in every chapter that explain how to use the theory presented in the text to solve different kinds of problems numerical methods including matlab and vector analysis are also included to help students analyze situations that they are likely to encounter in industry practice elements of electromagnetics fourth edition is designed for introductory undergraduate courses in electromagnetics an instructor s solutions manual co authored by sudarshan rao nelatury of penn state erie the behrend college and powerpoint slides of all figures in the text are available to adopters

computational electromagnetics is a young and growing discipline expanding as a result of the steadily increasing demand for software for the design and analysis of electrical devices this book introduces three of the most popular numerical methods for simulating electromagnetic fields the finite difference method the finite element method and the method of moments in particular it focuses on how these methods are used to obtain valid approximations to the solutions of maxwell s equations using for example staggered grids and edge elements the main goal of the book is to make the reader aware of different sources of errors in numerical computations and also to provide the tools for assessing the accuracy of numerical methods and their solutions to reach this goal convergence analysis extrapolation von neumann stability analysis and dispersion analysis are introduced and used frequently throughout the book another major goal of the book is to provide students with enough practical understanding of the methods so they are able to write simple programs on their own to achieve this the book contains several matlab programs and detailed description of practical issues such as assembly of finite element matrices and handling of unstructured meshes finally the book aims at making the students well aware of the strengths and weaknesses of the different methods so they can decide which method is best for each problem in this second edition extensive computer projects are added as well as new material throughout reviews of previous edition the well written monograph is devoted to students at the undergraduate level but is also useful for practising engineers zentralblatt math 2007

as the availability of powerful computer resources has grown over the last three decades the art of computation of electromagnetic em problems has also grown exponentially despite this dramatic growth however the em community lacked a comprehensive text on the computational techniques used to solve em problems the first edition of numerical techniques in electromagnetics filled that gap and became the reference of choice for thousands of engineers researchers and students the second edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years most notable among these are the improvements made to the standard algorithm for the finite difference time domain fdtd method and treatment of absorbing boundary conditions in fdtd finite element and transmission line matrix methods the author also added a chapter on the method of lines numerical techniques in electromagnetics continues to teach readers how to pose numerically analyze and solve em problems give them the ability to expand their problem solving skills using a variety of

methods and prepare them for research in electromagnetism now the second edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for em problems

despite the dramatic growth in the availability of powerful computer resources the em community lacks a comprehensive text on the computational techniques used to solve em problems the first edition of numerical techniques in electromagnetics filled that gap and became the reference of choice for thousands of engineers researchers and students this third edition of the bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years most notable among these are the improvements made to the standard algorithm for the finite difference time domain fdtd method and treatment of absorbing boundary conditions in fdtd finite element and transmission line matrix methods the author also has added a chapter on the method of lines numerical techniques in electromagnetics with matlab third edition continues to teach readers how to pose numerically analyze and solve em problems to give them the ability to expand their problem solving skills using a variety of methods and to prepare them for research in electromagnetism now the third edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for em problems and includes matlab code instead of fortran

a modern presentation of integral methods in low frequency electromagnetics this book provides state of the art knowledge on integral methods in low frequency electromagnetics blending theory with numerous examples it introduces key aspects of the integral methods used in engineering as a powerful alternative to pde based models readers will get complete coverage of the electromagnetic field and its basic characteristics an overview of solution methods solutions of electromagnetic fields by integral expressions integral and integrodifferential methods

ensure the accuracy of your results when applying the finite element method fem to electromagnetic and antenna problems with this self contained reference it provides you with a solid understanding of the method describes its key elements and numerical techniques and identifies various approaches to using the fem in solving real world microwave field problems

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

this book will enable readers to handle various emc problems to develop their own emc computational models in applications in research and industry and to better understand numerical methods developed and used by other researchers and engineers not only in emc but in other areas of engineering

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