

NATHAN IDA ■ JOÃO P.A. BASTOS

# ELECTRO- MAGNETICS AND CALCULATION OF FIELDS

Second Edition



Springer

# Electromagnetics And Calculation Of Fields

**DJ Losen**



## **Electromagnetics And Calculation Of Fields:**

*Electromagnetics and Calculation of Fields* Nathan Ida, Joao P.A. Bastos, 2013-03-07 Intended for undergraduate students of electrical engineering this introduction to electromagnetic fields emphasizes the computation of fields as well as the development of theoretical relations The first part thus presents the electromagnetic field and Maxwell's equations with a view toward connecting the disparate applications to the underlying relations while the second part presents computational methods of solving the equations which for most practical cases cannot be solved analytically *Modeling and Application of Electromagnetic and Thermal Field in Electrical Engineering* Zhiguang Cheng, Norio Takahashi, Behzad

Forghani, 2019-12-03 Co authored by an international research group with a long standing cooperation this book focuses on engineering oriented electromagnetic and thermal field modeling and application It presents important contributions including advanced and efficient finite element analysis used in the solution of electromagnetic and thermal field problems for large and multi scale engineering applications involving application script development magnetic measurement of both magnetic materials and components under various even extreme conditions based on well established standard and non standard experimental systems and multi level validation based on both industrial test systems and extended TEAM P21 benchmarking platform Although these are challenging topics they are useful for readers from both academia and industry

Electromagnetic Fields, Energy, and Waves Leonard M. Magid, 1981 Engineering Electromagnetics Nathan Ida, 2007-08-01 This text not only provides students with a good theoretical understanding of electromagnetic field equations but it also treats a large number of applications No topic is presented unless it is directly applicable to engineering design or unless it is needed for the understanding of another topic Included in this new edition are more than 400 examples and exercises exercising every topic in the book Also to be found are 600 end of chapter problems many of them applications or simplified applications A new chapter introducing numerical methods into the electromagnetic curriculum discusses the finite element finite difference and moment methods **Perfectly Matched Layer (PML) for Computational**

**Electromagnetics** Jean-Pierre Bérenger, 2022-06-01 This lecture presents the perfectly matched layer PML absorbing boundary condition ABC used to simulate free space when solving the Maxwell equations with such finite methods as the finite difference time domain FDTD method or the finite element method The frequency domain and the time domain equations are derived for the different forms of PML media namely the split PML the CPML the NPML and the uniaxial PML in the cases of PMLs matched to isotropic anisotropic and dispersive media The implementation of the PML ABC in the FDTD method is presented in detail Propagation and reflection of waves in the discretized FDTD space are derived and discussed with a special emphasis on the problem of evanescent waves The optimization of the PML ABC is addressed in two typical applications of the FDTD method first wave structure interaction problems and secondly waveguide problems Finally a review of the literature on the application of the PML ABC to other numerical techniques of electromagnetics and to other

partial differential equations of physics is provided In addition a software package for computing the actual reflection from a FDTD PML is provided It is available here **Introduction to Engineering Electromagnetic Fields** Korada

Umashankar,1989 This is a textbook designed to provide analytical background material in the area of Engineering Electromagnetic Fields for the senior level undergraduate and preparatory level graduate electrical engineering students It is also an excellent reference book for researchers in the field of computational electromagnetic fields The textbook covers Static Electric and Magnetic Fields The basic laws governing the Electrostatics Magnetostatics with engineering examples are presented which are enough to understand the fields and the electric current and charge sources Dynamic Electromagnetic Fields The Maxwell s equations in Time Domain and solutions the Maxwell s equations in Frequency Domain and solutions Extensive approaches are presented to solve partial differential equations satisfying electromagnetic boundary value problems Foundation to electromagnetic field radiation guided wave propagation is discussed to expose at the undergraduate level application of the Maxwell s equations to practical engineering problems [Electromagnetic Fields in Electrical Engineering](#) Andrzej Krawczyk,S. Wiak,2002 This volume includes contributions on field theory and advanced computational electromagnetics electrical machines and transformers optimization and interactive design electromagnetics in materials coupled field and electromagnetic components in mechatronics induction heating systems bioelectromagnetics and electromagnetics in education *Fields and Waves in Electromagnetic Communications* Nemai Chandra

Karmakar,2023-04-25 **FIELDS AND WAVES IN ELECTROMAGNETIC COMMUNICATIONS** A vital resource that comprehensively covers advanced topics in applied electromagnetics for the professional Electromagnetism EM is a highly abstract and complex subject that examines how exerting a force on charged particles is affected by the presence and motion of adjacent particles The interdependence of the time varying electric and magnetic fields one producing the other and vice versa has allowed researchers to consider them as a single coherent entity the electromagnetic field Under this umbrella students can learn about numerous and varied topics such as wireless propagation satellite communications microwave technology EM techniques antennas and optics among many others *Fields and Waves in Electromagnetic Communications* covers advanced topics in applied electromagnetics for the professional by offering a comprehensive textbook that covers the basics of EM to the most advanced topics such as the classical electron theory of matters the mechanics model and macroscopic model Specifically the book provides a welcome all in one source on wireless and guided EM that deals in a wide range of subjects transmission lines impedance matching techniques metallic waveguides resonators optical waveguides optical fibres antennas antenna arrays wireless systems and electromagnetic compatibility EMC and more The content is supported with innovative pedagogy the most recent reports and working principles of relevant and contemporary technological developments including applications specialist software tools laboratory experiments and innovative design projects *Fields and Waves in Electromagnetic Communications* readers will also find Multiple practical examples similes and

illustrations of interdisciplinary topics related to wireless and guided electromagnetism Explanations of new topics with support of basic theories connected to real world contexts and associated applications Sets of technology applications that rely on advanced electromagnetism A series of review questions and drills end of chapter problems and exercises to help enforce what was learned in each chapter Fields and Waves in Electromagnetic Communications is an ideal textbook for graduate students and senior undergraduates studying telecommunication and wireless communication It is also a useful resource for industry engineers and members of defense services Moreover the book is an excellent non specialist engineering reference able to be used in other disciplines such as biomedical engineering mechatronics computer science materials engineering civil and environmental engineering physics network engineering and wireless services

Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering Andrzej Krawczyk, Sławomir Wiak, Xose M. Lopez-Fernandez, 2006 More and more researchers engage into investigation of electromagnetic applications especially these connected with mechatronics information technologies medicine biology and material sciences It is readily seen when looking at the content of the book that computational techniques which were under development during the last three decades and are still being developed serve as good tools for discovering new electromagnetic phenomena It means that the field of computational electromagnetics belongs to an application area rather than to a research area This publication aims at joining theory and practice thus the majority of papers are deeply rooted in engineering problems being simultaneously of high theoretical level The editors hope to touch the heart of the matter in electromagnetism The book focuses on the following issues Computational Electromagnetics Electromagnetic Engineering Coupled Field and Special Applications Micro and Special Devices Bioelectromagnetics and Electromagnetic Hazard and Magnetic Material Modelling Abstracted in Inspec

*Practical Applications of Asymptotic Techniques in Electromagnetics* Francisco Sáez de Adana, 2011 Antenna wireless communication and other electrical engineers use asymptotic techniques for solving electromagnetic problems when the electrical size of a given scenario is large in comparison to the wavelength This practical book offers in depth coverage of this area showing how to apply these techniques to the analysis of complex electromagnetic problems in order to obtain results with an exceptionally high degree of accuracy Focusing on two highly effective methods the uniform theory of diffraction UTD and physical optics PO this book is unique in that it emphasizes how to solve real world problems rather than simply explaining theory like other books on the market This first of its kind resource show professionals how to apply this knowledge to a wide range of projects in the field including antenna design mobile communications and RCS radar cross section computation This authoritative book is supported with more than 100 illustrations and over 250 equations

**Bioengineering and Biophysical Aspects of Electromagnetic Fields, Fourth Edition** Ben Greenebaum, Frank Barnes, 2018-11-02 The two volumes of this new edition of the Handbook cover the basic biological medical physical and electrical engineering principles They also include experimental results concerning how electric and magnetic fields affect

biological systems both as potential hazards to health and potential tools for medical treatment and scientific research They also include material on the relationship between the science and the regulatory processes concerning human exposure to the fields Like its predecessors this edition is intended to be useful as a reference book but also for introducing the reader to bioelectromagnetics or some of its aspects

**FEATURES** New topics include coverage of electromagnetic effects in the terahertz region effects on plants and explicitly applying feedback concepts to the analysis of biological electromagnetic effects Expanded coverage of electromagnetic brain stimulation characterization and modeling of epithelial wounds and recent lab experiments on at all frequencies Section on background for setting standards and precautionary principle Discussion of recent epidemiological laboratory and theoretical results including WHO IARC syntheses of epidemiological results on both high and low frequency fields IITRI lab study of cancer in mice exposed to cell phone like radiation and other RF studies All chapters updated by internationally acknowledged experts in the field

*Environmental and Space Electromagnetics* Hiroshi Kikuchi, 2012-12-06 This book is based on the updated versions of a lively mixture of tutorials topical papers and scientific and technological contributions collected from the International URSI Symposium on Environmental and Space Electromagnetics held in Tokyo on 4-6 September 1989 It was sponsored by the International Union of Radio Science URSI as an activity of Commission E Chairman present editor preceding the URSI General Assembly in Prague Czechoslovakia in 1990 The aim was an exchange of information and views to highlight the state of the art in radio science and interdisciplinary areas Along this line the editor has attempted to cover quite new novel or unconventional subjects besides more traditional or conventional ones Although a great many subjects have apparently been covered this book has been edited so the reader can find some common concepts or views presented On this basis a group of many subjects can be treated in a unified fashion and new ideas and views can be gained as a most valuable addition to current knowledge This is one of the major features of this volume that cannot be found in any of the monographs or proceedings that cover a narrow range of limited topics Its broad scope does not stand for presentation in a superficial and shallow manner but stands for a strong focus on the search for a common nature in basic concepts or views in apparently diverse subjects and a focus on the advanced or innovative nature of each contribution

**Fundamentals of Electromagnetics with MATLAB** Karl Erik Lonngren, Sava Vasilev Savov, Randy J. Jost, 2007 Accompanying CD ROM contains a MATLAB tutorial

**Ultra-Wideband, Short-Pulse Electromagnetics 10** Frank Sabath, Eric L. Mokole, 2014-02-07 This book presents contributions of deep technical content and high scientific quality in the areas of electromagnetic theory scattering UWB antennas UWB systems ground penetrating radar GPR UWB communications pulsed power generation time domain computational electromagnetics UWB compatibility target detection and discrimination propagation through dispersive media and wavelet and multi resolution techniques Ultra wideband UWB short pulse SP electromagnetics are now being used for an increasingly wide variety of applications including collision avoidance radar concealed object detection and

communications Notable progress in UWB and SP technologies has been achieved by investigations of their theoretical bases and improvements in solid state manufacturing computers and digitizers UWB radar systems are also being used for mine clearing oil pipeline inspections archeology geology and electronic effects testing Like previous books in this series Ultra Wideband Short Pulse Electromagnetics 10 serves as an essential reference for scientists and engineers working in these applications areas Inverse Problems in Electric Circuits and Electromagnetics N.V. Korovkin,V.L. Chechurin,M.

Hayakawa,2007-04-14 The design and development of electrical devices involves choosing from many possible variants that which is the best or optimum according to one or several criteria These optimization criteria are usually already clear to the designer at the statement of the design problem The methods of optimization considered in this book allow us to sort out variants of the realization of a design on the basis of these criteria and to create the best device in the sense of the set criteria Optimization of devices is one of the major problems in electrical engineering that is related to an extensive class of inverse problems including synthesis diagnostics fault detection identification and some others with common mathematical properties When designing a device the engineer actually solves inverse problems by defining the device structure and its parameters and then proceeds to deal with the technical specifications followed by the incorporation of his own notions of the best device Frequently the solutions obtained are based on intuition and previous experience New methods and approaches discussed in this book will add mathematical rigor to these intuitive notions By virtue of their urgency inverse problems have been investigated for more than a century However general methods for their solution have been developed only recently An analysis of the scientific literature indicates a steadily growing interest among scientists and engineers in these problems

*The Method of Moments in Electromagnetics* Walton C. Gibson,2007-11-28 Responding to the need for a clear up to date introduction to the field The Method of Moments in Electromagnetics explores surface integral equations in electromagnetics and presents their numerical solution using the method of moments MOM technique It provides the numerical implementation aspects at a nuts and bolts level while discuss Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning Sawyer D. Campbell,Douglas H. Werner,2023-08-03 Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning Authoritative reference on the state of the art in the field with additional coverage of important foundational concepts Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning presents cutting edge research advances in the rapidly growing areas in optical and RF electromagnetic device modeling simulation and inverse design The text provides a comprehensive treatment of the field on subjects ranging from fundamental theoretical principles and new technological developments to state of the art device design as well as examples encompassing a wide range of related sub areas The content of the book covers all dielectric and metallodielectric optical metasurface deep learning accelerated inverse design deep neural networks for inverse scattering applications of deep learning for advanced antenna design and other related topics To aid in reader comprehension each chapter contains

10 15 illustrations including prototype photos line graphs and electric field plots Contributed to by leading research groups in the field sample topics covered in Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning include Optical and photonic design including generative machine learning for photonic design and inverse design of electromagnetic systems RF and antenna design including artificial neural networks for parametric electromagnetic modeling and optimization and analysis of uniform and non uniform antenna arrays Inverse scattering target classification and other applications including deep learning for high contrast inverse scattering of electrically large structures Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning is a must have resource on the topic for university faculty graduate students and engineers within the fields of electromagnetics wireless communications antenna RF design and photonics as well as researchers at large defense contractors and government laboratories

**An Introduction to Applied Electromagnetics and Optics** Vladimir V. Mitin, Dmitry I. Sementsov, 2016-11-18 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

**Integral Equation Methods for Electromagnetic and Elastic Waves** Weng Cho Chew, Mei Song Tong, Bin Hu, 2009 Integral Equation Methods for Electromagnetic and Elastic Waves is an outgrowth of several years of work There have been no recent books on integral equation methods There are books written on integral equations but either they have been around for a while or they were written by mathematicians Much of the knowledge in integral equation methods still resides in journal papers With this book important relevant knowledge for integral equations are consolidated in one place and researchers need only read the pertinent chapters in this book to gain important knowledge needed for integral equation research Also learning the fundamentals of linear elastic wave theory does not require a quantum leap for electromagnetic practitioners Integral equation methods have been around for several decades and their introduction to electromagnetics has been due to the seminal works of Richmond and Harrington in the 1960s There was a surge in the interest in this topic in the 1980s notably the work of Wilton and his coworkers due to increased computing power The interest in this area was on the wane when it was demonstrated that differential equation methods with their sparse matrices can solve many problems more efficiently than integral equation methods Recently due to the advent of fast algorithms there has been a revival in integral equation methods in electromagnetics Much of our work in recent years has been in fast algorithms for integral equations which prompted our interest in integral equation methods While previously only tens of thousands of unknowns could be solved by



integral equation methods now tens of millions of unknowns can be solved with fast algorithms This has prompted new enthusiasm in integral equation methods Table of Contents Introduction to Computational Electromagnetics Linear Vector Space Reciprocity and Energy Conservation Introduction to Integral Equations Integral Equations for Penetrable Objects Low Frequency Problems in Integral Equations Dyadic Green s Function for Layered Media and Integral Equations Fast Inhomogeneous Plane Wave Algorithm for Layered Media Electromagnetic Wave versus Elastic Wave Glossary of Acronyms

Electromagnetic Fields and Radiation Riadh W.Y. Habash, 2018-10-08 This reference explores the sources characteristics bioeffects and health hazards of extremely low frequency ELF fields and radio frequency radiation RFR analyzing current research as well as the latest epidemiological studies to assess potential risks associated with exposure and to develop effective safety guidelines Compiles reports and investigations from four decades of study on the effect of nonionizing electromagnetic fields and radiation on human health Summarizing modern engineering approaches to control exposure Electromagnetic Fields and Radiation discusses EM interaction mechanisms in biological systems Explorations into the impact of EM fields on free radicals cells tissues organs whole organisms and the population Regulatory standards in the United States Canada Europe and Asia Pacific Evaluation of incident fields from various EM sources Measurement surveys for various sites including power lines substations mobile systems cellular base stations broadcast antennas traffic radar devices heating equipment and other sources Dosimetry techniques for the determination of internal EM fields Conclusions reached by the Food and Drug Administration World Health Organization and other institutions

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