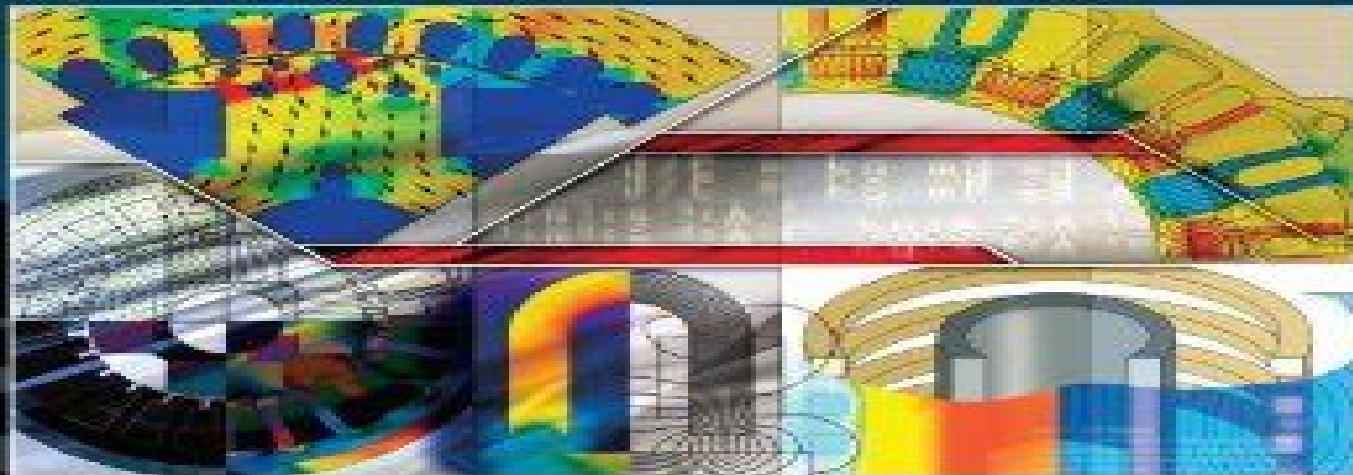


# APPLIED ELECTROMAGNETICS

*Using QuickField and MATLAB*

*James R. Claycomb*



E - N - G - I - N - E - E - R - I - N - G

# Applied Electromagnetics Using Quickfieldtm And Matlab Engineering Series

**Katrin Zwirgmaier**



## **Applied Electromagnetics Using Quickfieldtm And Matlab Engineering Series:**

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**Introductory Biophysics** James R. Claycomb, Jonathan Tran, 2011 Designed for biology physics and medical students Introductory Biophysics Perspectives on the Living State provides a comprehensive overview of the complex subject of biological physics The companion CD ROM with MATLAB examples and the student version of QuickFieldTM allows the student to perform biophysical simulations and modify the textbook example files Included in the text are computer simulations of thermodynamics astrobiology the response of living cells to external fields chaos in population dynamics numerical models of evolution electrical circuit models of cell suspension gap junctions and neuronal action potentials With this text students will be able to perform biophysical simulations within hours MATLAB examples include the Hodgkin Huxley equations the FitzHugh Nagumo model of action potentials fractal structures in biology chaos in population dynamics the cellular automaton model the game of life pattern formation in reaction diffusion systems QuickFieldTM tutorials and examples include calculation of currents in biological tissue cells under electrical stimulation induced membrane potentials heat transfer and analysis of stress in biomaterials

**Applied Electromagnetics Using QuickField and MATLAB** James R. Claycomb, 2010 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

**Mathematical Models and Numerical Methods for Full Wave Analysis of Prolate and Oblate Spheroidal Conformal Microwave Components** Saif Al-Hasson, 2014-08-29 Conformal components are used nowadays at higher rate than ever before They can be found in curved mobile phones communication navigation and imaging systems in land water air and space vehicles The integration of those components within the external structure became of significant importance for aerodynamic electromagnetic aesthetic or physical reasons As a result many mathematical models were previously developed to analyze and optimize such conformed devices In

this thesis we contributed to this field by developing various models for full wave analysis of spheroidal components As a starting point mathematical formulas for conforming antennas on oblate and prolate spheroids were obtained Those conformation methods were validated by conforming many antennas on spheroidal surfaces They were then used to formulate Method of Moments equations with spheroidally curved current functions for analyzing wire antennas of random shape conformed to spheroids in the frequency domain The complete model was applied to a conformal Archimedean spiral antenna on an oblate spheroid and showed that the conformed spiral has similar current distribution as its planar counterpart but produces an unsymmetrical radiation pattern The obtained model was then extended to spheroidal multi layer structures by integrating the spheroidal dyadic Green s Function within its mathematical derivation However due to a detected divergence in that function the model couldn t be implemented On the side of time based analysis methods a Finite Difference Time Domain method was developed for closed oblate and prolate spheroidal structures Alternative formulas for the structure s singularities and the condition of numerical stability were derived as well The obtained model was then validated and used to characterize spheroidal cavities in the time and frequency domains The method was extended later to unbounded spheroidal domain by deriving the Absorbing Boundary Conditions using the One Way Wave method The whole model was then applied to characterize a patch antenna conformed to a prolate spheroid Finally an analytical solution for the transient fields in spherical multilayer media energized by spherical harmonics source and an algorithm for tracing back the path of all the reflected waves were obtained The model was applied to different multilayer structures where the transient response was obtained and validated against a numerical solution

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**Electromagnetics** Branislav M. Notaros,2014 This title can be used to either complement another electromagnetics text or as an independent resource Designed primarily for undergraduate electromagnetics it can also be used in follow up courses on antennas propagation microwaves advanced electromagnetic theory computational electromagnetics electrical machines signal integrity etc This title also provides practical content to current and aspiring industry professionals MATLAB Based Electromagnetics provides engineering and physics students and other users with an operational knowledge and firm grasp of electromagnetic fundamentals aimed toward practical engineering applications by teaching them hands on

electromagnetics through a unique and comprehensive collection of MATLAB computer exercises and projects Essentially the book unifies two themes it presents and explains electromagnetics using MATLAB on one side and develops and discusses MATLAB for electromagnetics on the other MATLAB codes described and listed in TUTORIALS or proposed in other exercises provide prolonged benefits of learning By running codes generating results figures and diagrams playing movies and animations and solving a large variety of problems in MATLAB in class with peers in study groups or individually readers gain a deep understanding of electromagnetics

**Numerical Methods for Engineering** Karl F. Warnick, 2020-09-26 The revised and updated second edition of this textbook teaches students to create computer codes used to engineer antennas microwave circuits and other critical technologies for wireless communications and other applications of electromagnetic fields and waves Worked code examples are provided for MATLAB technical computing software

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

**Numerical and Analytical Methods with MATLAB for Electrical Engineers** William Bober, Andrew Stevens, 2016-04-19 Combining academic and practical approaches to this important topic Numerical and Analytical Methods with MATLAB for Electrical Engineers is the ideal resource for electrical and computer engineering students Based on a previous edition that was geared toward mechanical engineering students this book expands many of the concepts presented in the

**The Finite-Difference Time-Domain Method for Electromagnetics with MATLAB® Simulations** Atef Z. Elsherbeni, Veysel Demir, 2015-11-25 This is one of the best books on computational electromagnetics both for graduate students focusing on electromagnetics problems and for practicing engineering professionals in industry and government It is designed as an advanced textbook and self study guide to the FDTD method of solving EM problems and simulations This latest edition has been expanded to include 5 entirely new chapters on advanced topics in the mainstream of FDTD practice In addition to advanced techniques it also includes applications and examples and some tricks and traps of using MATLAB to achieve them Compared to the previous version the second edition is more complete and is a good reference for someone who is performing FDTD research This book is part of the ACES Series on Computational Electromagnetics and Engineering Supplementary material can be found at the IET's ebook page Supplementary materials for professors are available upon request via email to books@theiet.org

**Applied Electromagnetics** Stuart M. Wentworth, 2007-01-09 The revolution in wireless communications calls for a new focus in the electrical engineering curriculum Stuart M Wentworth fills that need with his new Applied Electromagnetics A Transmission Lines First Approach Incorporating the popular MATLAB program throughout it features practical applications for wireless systems transmission lines waveguides including optical fiber antennas and microwave systems Designed for use in a one or two semester sequence at the junior and senior level it offers students both detailed theoretical grounding and hands on experience in harmony with today's professional practice

**Electromagnetic and Photonic Simulation for the Beginner:**

**Finite-Difference Frequency-Domain in MATLAB®** Raymond C. Rumpf, 2022-01-31 This book teaches the finite difference frequency domain FDFD method from the simplest concepts to advanced three dimensional simulations It uses plain language and high quality graphics to help the complete beginner grasp all the concepts quickly and visually This single resource includes everything needed to simulate a wide variety of different electromagnetic and photonic devices The book is filled with helpful guidance and computational wisdom that will help the reader easily simulate their own devices and more easily learn and implement other methods in computational electromagnetics Special techniques in MATLAB are presented that will allow the reader to write their own FDFD programs Key concepts in electromagnetics are reviewed so the reader can fully understand the calculations happening in FDFD A powerful method for implementing the finite difference method is taught that will enable the reader to solve entirely new differential equations and sets of differential equations in mere minutes Separate chapters are included that describe how Maxwell's equations are approximated using finite differences and how outgoing waves can be absorbed using a perfectly matched layer absorbing boundary With this background a chapter describes how to calculate guided modes in waveguides and transmission lines The effective index method is taught as way to model many three dimensional devices in just two dimensions Another chapter describes how to calculate photonic band diagrams and isofrequency contours to quickly estimate the properties of periodic structures like photonic crystals Next a chapter presents how to analyze diffraction gratings and calculate the power coupled into each diffraction order This book shows that many devices can be simulated in the context of a diffraction grating including guided mode resonance filters photonic crystals polarizers metamaterials frequency selective surfaces and metasurfaces Plane wave sources Gaussian beam sources and guided mode sources are all described in detail allowing devices to be simulated in multiple ways An optical integrated circuit is simulated using the effective index method to build a two dimensional model of the 3D device and then launch a guided mode source into the circuit A chapter is included to describe how the code can be modified to easily perform parameter sweeps such as plotting reflection and transmission as a function of frequency wavelength angle of incidence or a dimension of the device The last chapter is advanced and teaches FDFD for three dimensional devices composed of anisotropic materials It includes simulations of a crossed grating a doubly periodic guided mode resonance filter a frequency selective surface and an invisibility cloak The chapter also includes a parameter retrieval from a left handed metamaterial The book includes all the MATLAB codes and detailed explanations of all programs This will allow the reader to easily modify the codes to simulate their own ideas and devices The author has created a website where the MATLAB codes can be downloaded errata can be seen and other learning resources can be accessed This is an ideal book for both an undergraduate elective course as well as a graduate course in computational electromagnetics because it covers the background material so well and includes examples of many different types of devices that will be of interest to a very wide audience

The Finite-difference Time-domain Method for Electromagnetics with MATLAB Simulations Atef Z.

Elsherbeni, Veysel Demir, 2009 Helping students to construct a program with sufficient functionality to solve some basic problems this book presents the construction of equations accompanied by 3D illustrations It also explains the transformation of the concepts into programming      **Computational Electromagnetics with MATLAB, Fourth Edition** Matthew N.O.

Sadiku, 2018-07-20 This fourth edition of the text reflects the continuing increase in awareness and use of computational electromagnetics 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 It teaches the 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 Includes new homework problems in each chapter Each chapter is updated with the current trends in CEM Adds a new appendix on CEM codes which covers commercial and free codes Provides updated MATLAB code      **Fundamentals of Electromagnetics with MATLAB**, 2018-05 MATLAB is computation software used for engineering and scientific numerical calculations The availability of technical computing environment such as MATLAB is now reshaping the role and applications of computer laboratory projects to involve students in more intense problem solving experience This availability also provides an opportunity to easily conduct numerical experiments and to tackle realistic and more complicated problems MATLAB is increasingly being used by students researchers practicing engineers and technicians The causes of MATLAB popularity are multitude Among them are its iterative mode of operation built in functions simple programming rich set of graphing facilities possibilities for writing additional functions and its extensive toolboxes Electromagnetic modeling is indispensable to the design and modeling of antenna radar satellite medical imaging and other applications Fundamentals of Electromagnetics with MATLAB provides state of the art techniques for solving real time complex physical problems using MATLAB based short scripts and comprehensive virtual tools covering fundamental analytical and numerical models that are widely used in teaching research and engineering designs The text coverage attempts to place detailed emphasis on numerical methods as most engineers are problem solvers not programmers They want to know what methods can be applied to a given problem what are their strengths and pitfalls and how to implement them This book will be of immense guide for engineering students practicing engineers and academic researchers as well as especially those who wish to explore the power and efficiency of MATLAB

*High-Frequency and Electromagnetic Modeling in MATLAB* Sergey Makarov, 2015-03-30 Addressing the growing demand for low cost accessible RF and electromagnetic solvers in MATLAB this book presents a compact customizable fully documented all MATLAB three dimensional solver It introduces the FDTD and MoM modeling methods and implements both using simple yet powerful MATLAB codes requiring only the basic MATLAB package The focus is on immediate applications of the developed numerical algorithms in electrical biomedical and civil engineering This is an especially useful guide for

researchers working with wireless body area networks in both the commercial and military sectors      *Low-Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB* Sergey N. Makarov, Gregory M. Noetscher, Ara Nazarian, 2015-05-12 Provides a detailed and systematic description of the Method of Moments Boundary Element Method for electromagnetic modeling at low frequencies and includes hands on application based MATLAB modules with user friendly and intuitive GUI and a highly visualized interactive output Includes a full body computational human phantom with over 120 triangular surface meshes extracted from the Visible Human Project Female dataset of the National library of Medicine and fully compatible with MATLAB and major commercial FEM BEM electromagnetic software simulators This book covers the basic concepts of computational low frequency electromagnetics in an application based format and hones the knowledge of these concepts with hands on MATLAB modules The book is divided into five parts Part 1 discusses low frequency electromagnetics basic theory of triangular surface mesh generation and computational human phantoms Part 2 covers electrostatics of conductors and dielectrics and direct current flow Linear magnetostatics is analyzed in Part 3 Part 4 examines theory and applications of eddy currents Finally Part 5 evaluates nonlinear electrostatics Application examples included in this book cover all major subjects of low frequency electromagnetic theory In addition this book includes complete or summarized analytical solutions to a large number of quasi static electromagnetic problems Each Chapter concludes with a summary of the corresponding MATLAB modules Combines fundamental electromagnetic theory and application oriented computation algorithms in the form of stand alone MATLAB modules Makes use of the three dimensional Method of Moments MoM for static and quasistatic electromagnetic problems Contains a detailed full body computational human phantom from the Visible Human Project Female embedded implant models and a collection of homogeneous human shells Low Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB is a resource for electrical and biomedical engineering students and practicing researchers engineers and medical doctors working on low frequency modeling and bioelectromagnetic applications      **Electromagnetic Modeling and Simulation** Levent Sevgi, 2014-03-13 This unique book presents simple easy to use but effective short codes as well as virtual tools that can be used by electrical electronic communication and computer engineers in a broad range of electrical engineering problems Electromagnetic modeling is essential to the design and modeling of antenna radar satellite medical imaging and other applications In this book author Levent Sevgi explains techniques for solving real time complex physical problems using MATLAB based short scripts and comprehensive virtual tools Unique in coverage and tutorial approach Electromagnetic Modeling and Simulation covers fundamental analytical and numerical models that are widely used in teaching research and engineering designs including mode and ray summation approaches with the canonical 2D nonpenetrable parallel plate waveguide as well as FDTD MoM and SSPE scripts The book also establishes an intelligent balance among the essentials of EM MODSIM The Problem the physics The Theory and Models mathematical background and analytical solutions and The



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