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Fundamentals of Electromagnetics with MATLAB

MATLAB is briefly introduced at the beginning of the text and used throughout to solve example problems. In addition, the authors have developed a set of MATLAB M-files available on a CD bound in the book and on the Web.

Fundamentals of Electromagnetics with MATLAB, 2e - MATLAB ...

Basic electromagnetic blocks and modeling techniques Magnetic libraries contain blocks for the magnetic domain, organized into elements, sources, and sensors. Connect these blocks together just as you would assemble a physical system.

Electromagnetic Models - MATLAB & Simulink - MathWorks ...

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Electromagnetic Matlab Solution

Files for GUIs built in MATLAB are stored in separate folders (subfolders) named after the corre- sponding MATLAB exercises, within the respective chapter folders. For example, fi les for the GUI fromMATLAB Exercise 2.13are in subfolderME2 13(GUI)inChapter 2folder.

MATLAB -Based Electromagnetics

'/util' are in the Matlab-Path. The files in '/test' can be run to check if everything works fine. The functions to start the calculation can be found in the root folder. These are: calcoyl.m - calculate the far field solution for a single (stratified) cylinder calcoyl_nrl.m - calculate the near field solution for a single (stratified) cylinder

MatScat - File Exchange - MATLAB Central

visdiff(name1,name2) displays the differences between the two specified files or folders in the Comparison Tool.The File Comparison Tool supports many file types such as MATLAB ® code files, zip files, MAT-files, and various other MATLAB and Simulink ® file formats. Use visdiff to compare two Simulink models and identify changes or merge differences between the models.

Compare two files or folders - MATLAB visdiff

filepath — File pathstring scalar | character vector. File path, returned as a string scalar or character vector. filepath has the same data type as the input argument filename. If the name of the file to parse does not specify a path, filepath is empty (‘’). Data Types: char | string.

Get parts of file name - MATLAB fileparts

Typically, only files with a matching file extension are displayed. On some platforms, uigetfile displays files that do not match the filter, but dims those file names. If the filter is missing or empty, uigetfile uses the default list of file types (for example, all MATLAB ® files).

Open file selection dialog box - MATLAB uigetfile

That means you do have 10 files with the extension .bollocks in your working directory. I am not one to judge file names :P, but just to make sure, i tested in my machine and here is what i got.

How to check if a file of certain type ... - MATLAB & Simulink

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File Exchange - MATLAB Central

Fundamentals of Electromagnetics with MATLAB® Second Edition equips you for your journey into learning the theory and the application of electromagnetic fields and waves. Inside this book, on the accompanying CD, and on the book's website you will find everything you need for your travel, including the most appropriate transport, fastest shortcuts, most interesting side streets and points of ...

Fundamentals of Electromagnetics with MATLAB®

Certain electromagnetic scattering problems have analytical solutions. In the cylindrical coordinate, the solutions are expressed in the series form of the products of the Bessel functions and exponential functions. This package contains the code that implements the field solutions as

Cylinder scattering - File Exchange - MATLAB Central

For example, if a file myscript.m exists, then the command type myscript displays the contents of that file. type leverages automatic character set detection to determine the file encoding for MATLAB code (.m) and other text files.

Display contents of file - MATLAB type - MathWorks United ...

MATLAB constructs the double data type according to IEEE ® Standard 754 for double precision. The range for a negative number of type double is between -1.79769 x 10 308 and -2.22507 x 10-308, and the range for positive numbers is between 2.22507 x 10-308 and 1.79769 x 10 308. For more information on double- and single-precision floating-point values, see Floating-Point Numbers.

Double-precision arrays - MATLAB

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Signal Integrity And Electromagnetic Broadband Packaging

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.

This exciting new resource presents a comprehensive introduction to the fundamentals of diffraction of two-dimensional canonical structures, including wedge, strip, and triangular cylinder with different boundary conditions. Maxwell equations are discussed, along with wave equation and scattered, diffracted and fringe fields. Geometric optics, as well as the geometric theory of diffraction are explained. With MATLAB scripts included for several well-known electromagnetic diffraction problems, this book discusses diffraction fundamentals of two-dimensional structures with different boundary conditions and analytical numerical methods that are used to show diffraction. The book introduces fundamental concepts of electromagnetic problems, identities, and definitions for diffraction modeling. Basic coordinate systems, boundary conditions, wave equation, and Green ' s function problem are given. The scattered fields, diffracted fields, and fringe fields, radar cross section for diffraction modeling are presented. Behaviors of electromagnetic waves around the two-dimensional canonical wedge and canonical strip are also explored. Diffraction of trilateral cylinders and wedges with rounded edges is investigated as well as double tip diffraction using Finite Difference Time Domain and Method of Moments. A MATLAB based virtual tool, developed with graphical user interface (GUI), for the visualization of both fringe currents and fringe waves is included, using numerical FDTD and MoM algorithm and High-Frequency Asymptotics approaches.

This book is a self-contained, programming-oriented and learner-centered book on finite element method (FEM), with special emphasis given to developing MATLAB® programs for numerical modeling of electromagnetic boundary value problems. It provides a deep understanding and intuition of FEM programming by means of step-by-step MATLAB® programs with detailed descriptions, and eventually enabling the readers to modify, adapt and apply the provided programs and formulations to develop FEM codes for similar problems through various exercises. It starts with simple one-dimensional static and time-harmonic problems and extends the developed theory to more complex two- or three-dimensional problems. It supplies sufficient theoretical background on the topic, and it thoroughly covers all phases (pre-processing, main body and post-processing) in FEM. FEM formulations are obtained for boundary value problems governed by a partial differential equation that is expressed in terms of a generic unknown function, and then, these formulations are specialized to various electromagnetic applications together with a post-processing phase. Since the method is mostly described in a general context, readers from other disciplines can also use this book and easily adapt the provided codes to their engineering problems. After forming a solid background on the fundamentals of FEM by means of canonical problems, readers are guided to more advanced applications of FEM in electromagnetics through a survey chapter at the end of the book. Offers a self-contained and easy-to-understand introduction to the theory and programming of finite element method. Covers various applications in the field of static and time-harmonic electromagnetics. Includes one-, two- and three-dimensional finite element codes in MATLAB®. Enables readers to develop finite element programming skills through various MATLAB® codes and exercises. Promotes self-directed learning skills and provides an effective instruction tool.

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.

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

Explore a comprehensive and state-of-the-art presentation of real-time electromagnetic transient simulation technology by leaders in the field Real-Time Electromagnetic Transient Simulation of AC-DC Networks delivers a detailed exposition of field programmable gate array (FPGA) hardware based real-time electromagnetic transient (EMT) emulation for all fundamental equipment used in AC-DC power grids. The book focuses specifically on detailed device-level models for their hardware realization in a massively parallel and deeply pipelined manner as well as decomposition techniques for emulating large systems. Each chapter contains fundamental concepts, apparatus models, solution algorithms, and hardware emulation to assist the reader in understanding the material contained within. Case studies are peppered throughout the book, ranging from small didactic test circuits to realistically sized large-scale AC-DC grids. The book also provides introductions to FPGA and hardware-in-the-loop (HIL) emulation procedures, and large-scale networks constructed by the foundational components described in earlier chapters. With a strong focus on high-voltage direct-current power transmission grid applications, Real-Time Electromagnetic Transient Simulation of AC-DC Networks covers both system-level and device-level mathematical models. Readers will also enjoy the inclusion of A thorough introduction to field programmable gate array technology, including the evolution of FPGAs, technology trends, hardware architectures, and programming tools An exploration of classical power system components, e.g., linear and nonlinear passive power system components, transmission lines, power transformers, rotating machines, and protective relays A comprehensive discussion of power semiconductor switches and converters, i.e., AC-DC and DC-DC converters, and specific power electronic apparatus such as DC circuit breakers An examination of decomposition techniques used at the equipment-level as well as the large-scale system-level for real-time EMT emulation of AC-DC networks Chapters that are supported by simulation results from well-defined test cases and the corresponding system parameters are provided in the Appendix Perfect for graduate students and professional engineers studying or working in electrical power engineering, Real-Time Electromagnetic Transient Simulation of AC-DC Networks will also earn a place in the libraries of simulation specialists, senior modeling and simulation engineers, planning and design engineers, and system studies engineers.

This extremely valuable learning resource is for students of electromagnetics and those who wish to refresh and solidify their understanding of its challenging applications. Problem-solving drills help develop confidence, but few textbooks offer the answers, never mind the complete solutions to their chapter exercises. In this text, noted author Professor Syed Naasar has divided the book's problems into topic areas similar to a textbook and presented a wide array of problems, followed immediately by their solutions.

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.

Accurate knowledge of electromagnetic power system transients is crucial to the operation of an economic, efficient and environmentally-friendly power system network, without compromising on the reliability and quality of the electrical power supply. Simulation has become a universal tool for the analysis of power system electromagnetic transients and yet is rarely covered in-depth in undergraduate programmes. It is likely to become core material in future courses. The primary objective of this book is to describe the application of efficient computational techniques to the solution of electromagnetic transient problems in systems of any size and topology, involving linear and nonlinear components. The text provides an in-depth knowledge of the different techniques that can be employed to simulate the electromagnetic transients associated with the various components within a power system network, setting up mathematical models and comparing different models for accuracy, computational requirements, etc. Written primarily for advanced electrical engineering students, the text includes basic examples to clarify difficult concepts. Considering the present lack of training in this area, many practising power engineers, in all aspects of the power industry, will find the book of immense value in their professional work.

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.

Introduces CEM methods, applying the codes that implement them to real-world engineering problems.

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