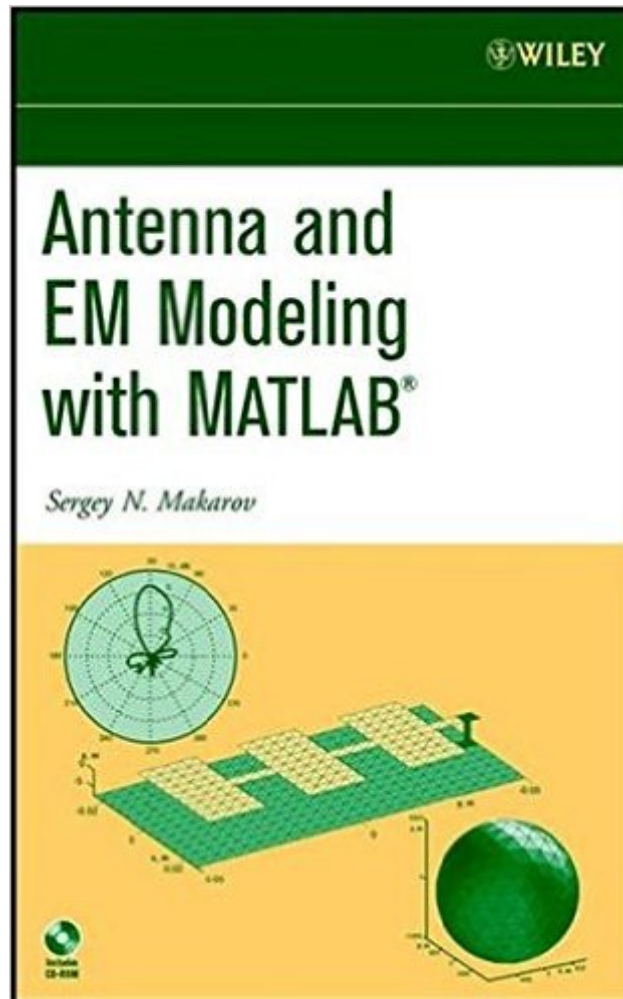


The book was found

Antenna And EM Modeling With Matlab



Synopsis

An accessible and practical tool for effective antenna design Due to the rapid development of wireless communications, the modeling of radiation and scattering is becoming more important in the design of antennas. Consequently, it is increasingly important for antenna designers and students of antenna design to have a comprehensive simulation tool. Sergey Makarov's text utilizes the widely used Matlab software, which offers a flexible and affordable alternative to other antenna and electromagnetic modeling tools currently available. After providing the basic background in electromagnetic theory necessary to utilize the software, the author describes the benefits and many practical uses of the Matlab package. The text demonstrates how Matlab solves basic radiation/scattering antenna problems in structures that range from simple dipoles to patch antennas and patch antenna arrays. Specialized antenna types like fractal antennas and frequency selective surfaces are considered as well. Finally, the text introduces Matlab applications to more advanced problems such as broadband and loaded antennas, UWB pulse antennas, and microstrip antenna arrays. For students and professionals in the field of antenna design, *Antenna and EM Modeling with Matlab*: Strikes an important balance between text and programming manual Provides numerous examples on how to calculate important antenna/target parameters Provides means for modifying existing codes for various individual projects Includes companion website with Matlab codes and antenna geometry files The present MATLAB codes are only supported by MATLAB 5 and 6 (up to 2004).

Book Information

Hardcover: 288 pages

Publisher: Wiley-Interscience; 1 edition (July 4, 2002)

Language: English

ISBN-10: 0471218766

ISBN-13: 978-0471218760

Product Dimensions: 6.5 x 0.8 x 9.5 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars Â Â See all reviews Â (3 customer reviews)

Best Sellers Rank: #1,671,522 in Books (See Top 100 in Books) #58 in Â Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Antennas #136 in Â Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Radar #1044 in Â Books > Computers & Technology > Software > Mathematical & Statistical

Customer Reviews

The book is well written but not very extensive. It points to the applications right from the beginning and it is certainly of great value for students and engineers already engaged with Balanis Book on antenna theory. I strongly recommend Makarov's book for training students with a strong numerical methods background on electromagnetics, as a prerequisite before taking the course.

It is a good book. Covers most types of antennas and arrays. The book deals with the method of moment (MoM) for EM modeling. Most formulas used are referenced to useful articles and books. It is a good idea to have the ref [1] in chapter 2, as a chapter at beginning of this book.

This is a carefully written book. It could be used as a text as well as a self-help manuscript for the practitioner. Its Matlab code appears to be somewhat version sensitive, though rework is minimal. The Matlab code allows a variety of subroutines to be used in conjunction with the base code. I'm pleased with this new addition to my library and might even use it as a text in my class. Dr. Jim Masi

[Download to continue reading...](#)

MATLAB - Programming with MATLAB for Beginners - A Practical Introduction to Programming and Problem Solving (Matlab for Engineers, MATLAB for Scientists, Matlab Programming for Dummies) Antenna and EM Modeling with Matlab Modern Methods of Reflector Antenna Analysis and Design (Artech House Antenna Library) HDTV Antenna: Over-The-Air HDTV Antenna Instructions Antenna Fundamentals- Module 4: Radio Antenna Systems - Advanced Electric Drives: Analysis, Control, and Modeling Using MATLAB / Simulink Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences (Modeling and Simulation in Science, Engineering and Technology) Microsoft Excel 2013 Data Analysis and Business Modeling: Data Analysis and Business Modeling (Introducing) Introduction to the Numerical Modeling of Groundwater and Geothermal Systems: Fundamentals of Mass, Energy and Solute Transport in Poroelastic Rocks (Multiphysics Modeling) Geochemical Modeling of Groundwater, Vadose and Geothermal Systems (Multiphysics Modeling) 3D Modeling For Beginners: Learn everything you need to know about 3D Modeling! Microstrip and Printed Antenna Design (Electromagnetics and Radar) Antenna Theory: Analysis and Design, 3rd Edition Antenna Theory: Analysis And Design, 3Rd Ed Free TV Over the Air: Choosing and Using an HDTV Antenna (Keys to Cut Cable TV Book 1) Phased Array Antenna Handbook, Second Edition (Artech House

Antennas and Propagation Library) Hitch Your Antenna to the Stars: Early Television and Broadcast
Stardom Antenna Theory and Design, 3rd Edition Microstrip Antenna Design Handbook (Artech
House Antennas and Propagation Library)

[Dmca](#)