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Fundamentals of Electromagnetics with MATLAB: Authors: Karl Erik Lonngren, Sava Vasilev Savov, Randy J. Jost: Edition: illustrated: Publisher: SciTech Publishing, 2007: ISBN: 1891121588,...

Fundamentals of Electromagnetics with MATLAB - Karl Erik ...

He is the author of over 450 professional papers and 70 books including Elements of Electromagnetics (Oxford, 4th ed., 2007), Fundamentals of Electric Circuits (McGraw-Hill, 4th ed., 2009, with C. Alexander), Numerical Techniques in Electromagnetics (CRC, 3rd ed., 2009), Metropolitan Area Networks (CRC Press, 1995), and Principles of Modern ...

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Fundamentals of Electromagnetics with MATLAB

and explains electromagnetics using MATLAB on one side, and develops and discusses MATLAB for electromagnetics on the other. The book is designed primarily (but by no means exclusively) for junior-level undergraduate students in electrical and computer engineering, physics, and similar departments, for either two-

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Fundamentals of Electromagnetics with MATLAB Hardcover – 1 May 2007 by Karl Lonngren (Author), Sava Savov (Author), Randy Jost (Author) 4.0 out of 5 stars 11 ratings See all 2 formats and editions

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Fundamentals of Electromagnetics with MATLAB, 2e Written for students in electrical engineering and physics, this text presents the theory and application of electromagnetics. Topics covered include basic vector calculus, static fields, time-varying fields, electromagnetic waves, transmission lines, and radiation.

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Engineering Electromagnetics is a "classic" book that has been updated for electromagnetics in today's world. It is designed for introductory courses in electromagnetics or electromagnetic field theory at the junior-level, but can also be used as a professional reference.

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Virtually every four-year electrical and computer engineering program requires a course in electromagnetic fields and waves encompassing Maxwell's equations. Understanding and appreciating the laws of Nature that govern the speed of even the smallest computer chip or largest power line is fundamental for every electrical and computer engineer. Fundamentals of Electromagnetics with MATLAB, 2nd Edition is much more than a mere textbook. The book itself offers a structural framework of principles, key equations, and problems. With that crucial supporting structure, each instructor, student or reader can turn to the supplemental files provided with this book or available online to customize and decorate each topic room. This second edition is the result of extensive user feedback and includes a 100% standalone Transmission Line chapter for flexible course placement; expanded problem sets matched to text sections and checked for clarity; and separate chapters for Electrostatics and Magnetostatics. Supplementary materials for professors and/or students are available upon request via email to [books@theiet.org](mailto:books@theiet.org).

# Read Book Fundamentals Of Electromagnetics With Matlab Second Edition

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.



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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 <sup>®</sup> (R) Second Edition equips you for your journey into learning the theory and the application of electromagnetic fields and waves.

An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can take the form of an electric generator, electric motor, or transformer. Electric generators produce virtually all electric power we use all over the world. Electric machine blends the three major areas of electrical engineering: power, control and power electronics. This book presents the relation of power quantities for the machine as the current, voltage power flow, power losses, and efficiency. This book will provide a good understanding of the behavior and its drive, beginning with the study of salient features

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of electrical dc and ac machines.

An introduction to Electromagnetics theory and applications ,typically for College junior Electrical Engineering and Physics majors, that makes extensive use of the computer program MATLAB for complex calculations and graphical visualization of waves.

With the rapid growth of wireless technologies, more and more people are trying to gain a better understanding of electromagnetics. After all, electromagnetic fields have a direct impact on reception in all wireless applications. This text explores electromagnetics, presenting practical applications for wireless systems, transmission lines, waveguides, antennas, electromagnetic interference, and microwave engineering. It is designed for use in a one- or two-semester electromagnetics sequence for electrical engineering students at the junior and senior level. The first book on the subject to tackle the impact of electromagnetics on wireless applications: Includes numerous worked-out example problems that provide you with hands-on experience in solving electromagnetic problems. Describes a number of practical applications that show how electromagnetic theory is put into practice. Offers a concise summary at the end of each chapter that reinforces the key points. Detailed MATLAB examples are integrated throughout the book to enhance the material.

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