

Makes electromagnetics more interesting and understandable through the use of MATLAB examples, graphics, and exercises.

Building upon the reader's basic understanding of electromagnetics obtained in an introductory course in physics, this book stresses its importance in a modern electrical and computer engineering curriculum. The concepts of static fields, time-varying fields, wave propagation, transmission lines, and radiation are described. Most importantly, the text emphasizes the use of MATLAB[®]—now widely available and frequently used by most students in previous courses, for the calculation and visualization of electromagnetic field characteristics.

KEY FEATURES

- Electromagnetic theory is introduced using the historical approach in that static fields precede time-varying fields.
- Wave propagation and transmission lines are emphasized in this text.
- Provides students with a broader introduction to numerical methods—Method of Moments, FDTD, and Finite Element Method—for application in later advanced courses.
- MATLAB supplements analytical mathematical tools in solving boundary value problems for static fields. Traditional vector calculus also incorporates MATLAB techniques.
- Several MATLAB programs are included in this text that can be easily modified by the reader to solve more difficult problems. In addition, the MATLAB programs that are used to generate the figures and solve the examples are available on the Web.
- Answers to problems are available to students and complete solutions to the problems including the MATLAB programs are available to instructors.

ABOUT THE AUTHORS

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Fundamentals of ELECTROMAGNETICS with MATLAB



Fundamentals of ELECTROMAGNETICS with MATLAB

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