



Elements of Electromagnetics (The Oxford Series in Electrical and Computer Engineering)

Matthew N. O. Sadiku

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Designed for the standard sophomore- and junior-level course in electromagnetics, *Elements of Electromagnetics, 3/e*, continues the highly regarded pedagogical tradition established by its successful previous editions. It offers students the most lucid and interesting presentation available of fundamental concepts and applications in electromagnetics. Revised and updated, this third edition adds a new chapter on modern topics covering microwaves, electromagnetic interference and compatibility, fiber optics, and more. A solutions manual accompanies the text.

Features

- Begins with vector analysis and applies it gradually throughout the text, avoiding the frequent interruptions that occur when mathematical background is interspersed sporadically throughout a text
- Incorporates many helpful pedagogical features including chapter introductions and summaries, boxed formulas, multiple-choice review questions, and thoroughly worked-out examples followed by practice exercises
- Treats mathematical theorems separately from physical concepts, making it easier for students to grasp the theorems
- Devotes an entire chapter to modern computer tools used in electromagnetics
- Motivates student learning with more than 100 illustrative examples and over 600 figures
- Provides a balanced presentation of time-varying fields and static fields, preparing students for employment in today's industrial and manufacturing sectors

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