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Engineering Electromagnetics 16 **Fundamentals Of Engineering Electromagnetics David**

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Synopsis. Fundamental of Engineering Electromagnetics not only presents the

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fundamentals of electromagnetism in a concise and logical manner, but also includes a variety of interesting and important applications. While adapted from his popular and more extensive work, *Field and Wave Electromagnetics*, this text incorporates a number of innovative pedagogical features.

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Fundamentals of Engineering Electromagnetics, 1993, 488 pages, David Keun Cheng, 0201566117, 9780201566116, ADDISON WESLEY Publishing Company Incorporated, 1993.

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Fundamental of Engineering Electromagnetics not only presents the fundamentals of electromagnetism in a concise and logical manner, but also includes a variety of interesting and important applications.

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Fundamentals of Engineering Electromagnetics is a shorter version of Dr. Cheng's best-selling *Field and Wave Electromagnetics*, Second Edition. Fundamentals has been written in summaries. Emphasizes examples and exercises that invite students to build their knowledge of electromagnetics by solving problems.

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Pearson - Fundamentals of Engineering Electromagnetics ...

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Electromagnetics is too important in too many fields for knowledge to be gathered on the fly. A deep understanding gained through structured presentation of concepts and practical problem solving is the best way to approach this important subject. *Fundamentals of Engineering Electromagnetics* provides such an understanding, distilling the most important theoretical aspects and applying this knowledge to the formulation and solution of real engineering problems. Comprising chapters drawn from the critically acclaimed *Handbook of Engineering Electromagnetics*, this book supplies a focused treatment that is ideal for specialists in areas such as medicine, communications, and remote sensing who have a need to understand and apply electromagnetic principles, but who are unfamiliar with the field. Here is what the critics have to say

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about the original work "...accompanied with practical engineering applications and useful illustrations, as well as a good selection of references ... those chapters that are devoted to areas that I am less familiar with, but currently have a need to address, have certainly been valuable to me. This book will therefore provide a useful resource for many engineers working in applied electromagnetics, particularly those in the early stages of their careers." -Alastair R. Ruddle, The IEE Online "...a tour of practical electromagnetics written by industry experts ... provides an excellent tour of the practical side of electromagnetics ... a useful reference for a wide range of electromagnetics problems ... a very useful and well-written compendium..." -Alfy Riddle, IEEE Microwave Magazine

Fundamentals of Engineering Electromagnetics lays the theoretical foundation for solving new and complex engineering problems involving electromagnetics.

Respected for its accuracy, its smooth and logical flow of ideas, and its clear presentation, 'Field and Wave Electromagnetics' has become an established textbook in the field of electromagnetics. This book builds the electromagnetic model using an axiomatic approach in steps: first for static electric fields, then for static magnetic fields, and finally for time-varying fields leading to Maxwell's equations.

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This book is the first of two volumes which have been created to provide an understanding of the basic principles and applications of electromagnetic fields for electrical engineering students. Fundamentals of Electromagnetics Vol 1: Internal Behavior of Lumped Elements focuses upon the DC and low-frequency behavior of electromagnetic fields within lumped elements. The properties of electromagnetic fields provide the basis for predicting the terminal characteristics of resistors, capacitors, and inductors. The properties of magnetic circuits are included as well. For slightly higher frequencies for which the lumped elements are a significant fraction of a wavelength in size the second volume of this set, Fundamentals of Electromagnetics Vol 2: Quasistatics and Waves, examines how the low-frequency models of lumped elements are modified to include parasitic elements. Upon completion of understanding the two volumes of this book, students will have gained the necessary knowledge to progress to advanced studies of electromagnetics.

Engineers do not have the time to wade through rigorously theoretical books when trying to solve a problem. Beginners lack the expertise required to understand highly specialized treatments of individual topics.

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This is especially problematic for a field as broad as electromagnetics, which propagates into many diverse engineering fields. The time h

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

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