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Electromagnetic Foundations of Electrical Engineering ...

The primary goal of the textbook on Electromagnetic Foundations of Electrical Engineering is to provide undergraduate students taking courses in electrical engineering with a scientifically founded unified basis of fundamental knowledge on electromagnetic field phenomena, which will enable them to grasp advanced matters and specialized applications that will be dealt with later in their courses or that they will come across in their professional lives as engineers.

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"Electromagnetic Foundations of Electric Engineering" starts with an explanation of Maxwell's equations, where the basic laws and principles regulating the stationary and time-varying electrical

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and magnetic fields are based. Outcomes for the two gradually - and - rapidly-varying electromagnetic field issues are discussed in detail.

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Foundations of Electrical Engineering: Fields—Networks—Waves describes the general principles of electrical engineering, with emphasis on fields, networks, and waves. The limitations of validity are defined and methods of calculation are outlined.

Foundations of Electrical Engineering | ScienceDirect

5.0 out of 5 stars Foundations of Electrical Engineering, 2nd edition, J.R. Cogdell Reviewed in the United States on March 10, 2010 This book is perfect for the use in a course called "Electrical Engineering for Non-Majors". The material is "math based" and as such it is an engineering text and not a technician's text.

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Electromagnetic foundations of electrical engineering ...

5.5.2 Electromagnetic pressures acting on permeable and dielectric media..... 145 5.6 Photonic forces 147

Electromagnetics and Applications

Guided-propagation analysis based on the quasi-TEM approach is the core subject of Chapter 9. Time-domain and frequency-domain transmission-line equations are established from basic Maxwell's equations by using per-unit-length line parameters.

Transmission-Line Analysis - Electromagnetic Foundations ...

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