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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.

SI units and universal constants. Vector addition and subtraction. Gradient of a scalar field. Divergence of a vector field. Curl of a vector field. Fundamental postulates of electrostatics in free space. Material media in static electric field. Electric flux density and dielectric constant. Boundary conditions for electrostatic fields. Electrostatic energy and forces. Solution of electrostatic boundary-value problems. Governing equations for steady current density. Fundamental postulates of magnetostatics in free space. The Biot-Savart law and applications. Magnetization and equivalent current densities. Magnetic field intensity and relative permeability. Behavior of magnetic materials. Boundary conditions for magnetostatic fields. Magnetic forces and torques. Plane waves in lossless media. Plane waves in lossy media. Flow of electromagnetic power and the Poynting vector. Normal incidence of plane waves at plane boundaries. Oblique incidence of plane waves at plane boundaries. Wave characteristics on an infinite transmission line. Wave characteristics on finite transmission lines. Waveguides and Cavity Resonators. General wave behaviors along uniform guiding structures. Antennas and Antenna Arrays. The elemental electric dipole. Antenna patterns and directivity. Effective area and backscatter cross section. Friis transmission formula and radar equation. Some Useful Material Constants. Answers to Odd-numbered Problems. Fundamentals of Engineering Electromagnetics Title: Fundamentals of Engineering Electromagnetics Authors: Nov 10 Condition: Used - Good Ships same day or next business day! Used books may not include working access code or dust jacket. Payment We accept PayPal for all eBay orders. Please see payment details below. We will only ship to the address that is entered into PayPal when payment is made! Shipping Multiple shipping options are available for this item. For more detail, please see below, and select the shipping option that is most convenient for you. Returns We have a 30 day return policy. The return must be postmarked within 30 days of the delivery date. Once the item has been returned, we will initiate an item-only refund shipping costs are non-refundable. We do not provide return labels for general returns. Seller assumes all responsibility for this listing. Shipping and handling The seller has not specified a shipping method to Germany. Contact the seller- opens in a new window or tab and request shipping to your location. Shipping cost cannot be calculated. Please enter a valid ZIP Code. This item will be shipped through the Global Shipping Program and includes international tracking. Learn more- opens in a new window or tab Quantity: There are 13 items available. Please enter a number less than or equal to Select a valid country. Please enter 5 or 9 numbers for the ZIP Code. This item does not ship to Germany Handling time Will usually ship within 2 business days of receiving cleared payment - opens in a new window or tab. Return policy After receiving the item, contact seller within Refund will be given as Return shipping Money back Buyer pays for return shipping Refer to eBay Return policy for more details. You are covered by the eBay Money Back Guarantee if you receive an item that is not as described in the listing.

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Chapter 2 : Fundamentals of engineering electromagnetics (edition) | Open Library

This is a derivative publication of Dr Cheng's Field and Wave Electromagnetics (2nd edition). It has been developed in response to the need for a text that supports the mastery of this difficult subject. Therefore, in addition to presenting electromagnetics in a concise and logical manner, the text.

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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. While adapted from his popular and more extensive work, Field and Wave Electromagnetics, this.

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DK Cheng () Field and wave electromagnetics. Addison.

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