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Engineering Electromagnetics

By C L Wadhwa

New Age International (P) Limited, 2012. Softcover. Book Condition: New. First edition. Engineering Electromagnetics has been written as a basic course in Electrical Engineering, Electronics and Communication Engineering etc. for undergraduate students. Electromagnetic theory is a very important subject as it has wide variety of applications in wireless technology. Salient features Vector Analysis being the language of Electromagnetics has been explained in simple words and physical significance of processes like gradient, divergence, curl etc discussed for better understanding Coulomb`s law and Electric field intensity due to different charge distribution have been discussed Gauss`s law and its applications to electric fields explained The concept of potential, absolute potential, electrostatic field energy has been discussed The properties of conductors, insulators and semiconductors discussed Dielectric materials and Capacitors discussed. Method of images and its applications explained Poisson`s and Laplace`s equations derived and their applications to boundary value problems explained Biot-Savart law, Ampere`s circuital law and Stoke theorem explained for steady magnetic fields Magnetic forces, properties of magnetic materials, magnetic boundary conditions, and magnetic circuits explained Faraday`s law and Maxwell`s equations in various forms discussed Transmission line equations derived and their solution sought. Wave reflection and refraction at discontinuities explained. The concept of VSWR...


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