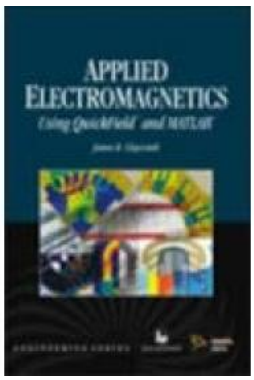

Applied Electromagnetics Using QuickField and MATLAB

By James R. Claycomb

Laxmi Publications Pvt. Ltd, 2010. Softcover. Book Condition: New. First edition. ntended as a textbook for electromagnetism courses or as a reference for practicing engineers, the book uses the computer software packages QuickField and MATLAB for visualizing electric and magnetic fields, and for calculating their resulting forces, charge, and current distributions. The concepts of electromagnetism "come alive" as the readers model real-world problems and experiment with currents in biological tissue under electrical stimulation, superconducting magnetic shielding, Monte Carlo methods, circuits, etc. The accompanying CD includes a copy of the Student Version of QuickField, as well as numerous demonstrations using MATLAB and QuickField, color images, and third-party simulations. KEY FEATURES Application-based examples cover a variety of topics including: fuel cells, the Orion spacecraft, brain tumors, circuits, stress analysis, superconducting magnetic shielding, and more Includes a CD-ROM with over 400 MB of functional software, simulations, and figures Uses QuickField and MATLAB as tools for teaching applications of electromagnetics Builds understanding of the qualitative behavior of electromagnetic field principles with visualization of color, contour, and vector field plots in the post-processing moduleContents: 1. Mathematical Preliminaries 2. Solution to Laplace`s Equation 3. A Walk Through Quick Field 4. Electrostatics 5. Magnetostatics 6. Time-harmonic Magnetics...

Reviews

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