Computational Methods for Electromagnetics

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Computational Methods for Electromagnetics is an indispensable resource for making efficient and accurate formulations for electromagnetics applications and their numerical treatment. Employing a unified coherent approach that is unmatched in the field, the authors detail both integral and differential equations using the method of moments and finite-element procedures. In addition, readers will gain a thorough understanding of numerical solution procedures.

Topics covered include:

- Two- and three-dimensional integral equation/method-of-moments formulations
- Open-region finite-element formulations based on the scalar and vector Helmholtz equations
- Finite difference time-domain methods
- Direct and iterative algorithms for the solutions of linear systems
- Error analysis and the convergence behavior of numerical results
- Radiation boundary conditions
- Acceleration methods for periodic Green's functions
- Vector finite elements

Detail is provided to enable the reader to implement concepts in software and, in addition, a collection of related computer programs are available via the Internet. *Computational Methods for Electromagnetics* is designed for graduate-level classroom use or self-study, and every chapter includes problems. It will also be of particular interest to engineers working in the aerospace, defense, telecommunications, wireless, electromagnetic compatibility, and electronic packaging industries.

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