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Soggetti	Mechanical engineering Computers Computer mathematics Optics Electrodynamics Computational intelligence Mathematical physics Mechanical Engineering Theory of Computation Computational Mathematics and Numerical Analysis Classical Electrodynamics Computational Intelligence Theoretical, Mathematical and Computational Physics
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Nota di contenuto	Stabilized FEM–BEM Coupling for Maxwell Transmission Problems -- A Posteriori Error Analysis and Adaptive Finite Element Methods for Electromagnetic and Acoustic Problems -- Time Domain Adaptive Integral Method for Surface Integral Equations -- Local and Nonlocal

Nonreflecting Boundary Conditions for Electromagnetic Scattering --  
High-Order Methods for High-Frequency Scattering Applications --  
Recent Studies on Inverse Medium Scattering Problems -- Time  
Reversal of Electromagnetic Waves -- Addition Theorem.

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Sommario/riassunto

Modeling and computations in electromagnetics is a quite novel and growing discipline, expanding as a result of the steadily increasing demand for designing electrical devices, modeling electromagnetic materials, and simulating electromagnetic fields in nanoscale structures. The aim of this volume is to bring together prominent worldwide experts to review state-of-the-art developments and future trends of modeling and computations in electromagnetics. This volume is devoted to merging the expertise of scientists working in this dynamic discipline, and to raising interest for challenging issues. The most significant advances in computational techniques have been made only in the last few years, and several challenging technological applications are presented in this volume.

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