1. Record Nr. UNINA9910969225403321

Titolo	Modeling and Computations in Electromagnetics : A Volume Dedicated to Jean-Claude Nédélec / / edited by Habib Ammari
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	9786611179434 9781281179432 1281179434 9783540737780 3540737782
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (240 p.)
Collana	Lecture Notes in Computational Science and Engineering, , 2197-7100 ; ; 59
Disciplina	537.01/5118 539.20113
Soggetti	Mechanical engineering Computer science Mathematics - Data processing Electrodynamics Computational intelligence Mathematical physics Mechanical Engineering Theory of Computation Computational Mathematics and Numerical Analysis Classical Electrodynamics Computational Intelligence Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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.
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.