Contents

New Results on Absorbing Layers and Radiation Boundary Conditions
Thomas Hagstrom 1

Fast, High-Order, High-Frequency Integral Methods for Computational Acoustics and Electromagnetics
Oscar P. Bruno 43

Galerkin Boundary Element Methods for Electromagnetic Scattering
Annalisa Buffa, Ralf Hiptmair 83

Computation of resonance frequencies for Maxwell equations in non-smooth domains
Martin Costabel, Monique Dauge 125

***hp*-Adaptive Finite Elements for Time-Harmonic Maxwell Equations**
Leszek Demkowicz 163

Variational Methods for Time–Dependent Wave Propagation Problems
Patrick Joly 201

Some Numerical Techniques for Maxwell's Equations in Different Types of Geometries
Bengt Fornberg 265

On Retarded Potential Boundary Integral Equations and their Discretisation
Tuong Ha-Duong 301

Inverse Scattering Theory for Time–Harmonic Waves
Andreas Kirsch 337

Herglotz Wave Functions in Inverse Electromagnetic Scattering Theory
David Colton, Peter Monk 367

Appendix: Colour Figures
. 395



http://www.springer.com/978-3-540-00744-9

Topics in Computational Wave Propagation
Direct and Inverse Problems
Ainsworth, M.; Davies, P.; Duncan, D.B.; Martin, P.A.;
Rynne, B. (Eds.)
2003, VIII, 410 p. 55 illus., 9 illus. in color., Softcover
ISBN: 978-3-540-00744-9