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| Pubbl/distr/stampa | Cham : Springer, 2015 |
| ISBN | 9783319193069 |
| Descrizione fisica | 1 online resource (vii, 240 pages) |
| Collana | Lecture notes in mathematics, 1617-9692 ; 2148 |
| Classificazione | AMS 78-06 AMS 35P25 AMS 35Q60 AMS 35R30 AMS 78A25 LC QC759.6 |
| Altri autori (Persone) | Haddar, Houssemauthor Bermúdez de Castro, Alfredo Valli, Alberto |
| Disciplina | 537.0151 |
| Soggetti | Electromagnetism - Mathematics - Congresses Maxwell equations - Congresses |
| Lingua di pubblicazione | Inglese |
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| Sommario/riassunto | Presenting topics that have not previously been contained in a single volume, this book offers an up-to-date review of computational methods in electromagnetism, with a focus on recent results in the numerical simulation of real-life electromagnetic problems and on theoretical results that are useful in devising and analyzing approximation algorithms. Based on four courses delivered in Cetraro in June 2014, the material covered includes the spatial discretization of Maxwell's equations in a bounded domain, the numerical approximation of the eddy current model in harmonic regime, the time domain integral equation method (with an emphasis on the electric-field integral equation) and an overview of qualitative methods for |

inverse electromagnetic scattering problems. Assuming some knowledge of the variational formulation of PDEs and of finite element/boundary element methods, the book is suitable for PhD students and researchers interested in numerical approximation of partial differential equations and scientific computing
