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Note generali	"This book contains the proceedings of the research conference, "Imaging Microstructures: Mathematical and Computational Challenges", held at the Institut Henri Poincare, on June 18-20, 2008" --P. [4] of cover.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents -- Preface -- Diffusion in cellular microdomains: Application to synapses -- Modeling and computation of the scattering by a nano optical medium -- Behaviour of periodic fast multipole boundary integral equation method for Maxwell's equations near Wood's anomalies -- An asymptotic factorization method for inverse electromagnetic scattering in layered media II: A numerical study -- Faults in elastic half space: Direct and inverse problem -- Asymptotics in the presence of inclusions of small volume for a conduction equation: A case with a non-smooth reference potential -- Inverse Born series for diffuse waves -- On identification of doping profile in semiconductors -- Reconstruction algorithm for the linearized polarization tomography problem with incomplete data -- An effectivization of the global reconstruction in the Gel'fand-Calderón inverse problem in three dimensions -- The image system and Green's function for the ellipsoid.

