

1. Record Nr.	UNINA9910346912403321
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Titolo	The factorization method for inverse scattering from periodic inhomogeneous media
Pubbl/distr/stampa	KIT Scientific Publishing, 2010
ISBN	1000019400
Descrizione fisica	1 online resource (X, 152 p. p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>This book addresses the identification of the shape of penetrable periodic media by means of scattered time-harmonic waves. Mathematically, this is about the determination of the support of a function which occurs in the governing equations. Our theoretical analysis shows that this problem can be strictly solved for acoustic as well as for electromagnetic radiation by the so-called Factorization Method. We apply this method to reconstruct a couple of media from numerically simulated field data.</p>