

1. Record Nr.	UNINA9910464297803321
Autore	Jarem John M. <1948->
Titolo	Computational methods for electromagnetic and optical systems // by John M. Jarem and Partha P. Banerjee
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2014
ISBN	0-429-11195-9 1-4398-0422-2 1-4398-9128-1
Edizione	[Second edition.]
Descrizione fisica	1 online resource (426 pages) : illustrations
Collana	Optical Science and Engineering, ; ; 149
Disciplina	537.01/51
Soggetti	Electromagnetism - Mathematics Electromagnetism - Industrial applications Optics - Mathematics Optics - Industrial applications Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	chapter 1 Mathematical Preliminaries -- chapter 2 Scalar EM Beam Propagation in Inhomogeneous Media -- chapter 3 EM Wave Propagation in Linear Media -- chapter 4 Spectral State Variable Formulation for Planar Systems -- chapter 5 Planar Diffraction Gratings -- chapter 6 Application of RCWA to Analysis of Induced Photorefractive Gratings -- chapter 7 Rigorous Coupled Wave Analysis of Inhomogeneous Cylindrical and Spherical Systems -- chapter 8 Rigorous Coupled Wave Analysis of Inhomogeneous Bipolar Cylindrical Systems -- chapter 9 Bipolar Coordinate RCWA Computational Examples and Case Studies.
Sommario/riassunto	The current rapid and complex advancement applications of electromagnetic (EM) and optical systems calls for a much needed update on the computational methods currently in use. Completely revised and reflecting ten years of developments, this second edition of the bestselling Computational Methods for Electromagnetic and Optical Systems provides the update so desperately needed in this field.

