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Nota di contenuto	Front Cover; Contents; Introduction; Chapter 1 Basic equations of diffractive nanophotonics; Chapter 2 Numerical methods for diffraction theory; Chapter 3 Diffraction on cylindrical inhomogeneities comparable to the wavelength; Chapter 4 Modelling of periodic diffractive micro and nanostructures; Chapter 5 Photonic crystals and light focusing; Chapter 6 Photonic crystal fibres; Chapter 7 Singular optics and superresolution; Chapter 8 Optical trapping and manipulation of micro- and nano-objects; Conclusion; Appendix A Simulation using FULLWAVE; Appendix B Simulation using FIMMWAVE Appendix C Simulation using OLYMPIOS programBack Cover
Sommario/riassunto	Diffractive Nanophotonics demonstrates the utility of the well-established methods of diffractive computer optics in solving nanophotonics tasks. It is concerned with peculiar properties of laser light diffraction by microoptics elements with nanoscale features and light confinement in subwavelength space regions. Written by recognized experts in this field, the book covers in detail a wide variety of advanced methods for the rigorous simulation of light diffraction. The authors apply their expertise to addressing cutting-edge problems in nanophotonics. Chapters cons