



Optics of Diffractive and Gradient-Index Elements and Systems

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Optics Of Diffractive And Gradient Index Elements And Systems Pm 42

Optical Society of America



Optics Of Diffractive And Gradient Index Elements And Systems Pm 42:

Optics of Diffractive and Gradient-index Elements and Systems Grigoriĭ Isaevich Greĭsukh, Sergeĭ Timofeevich Bobrov, Sergeĭ Aleksandrovich Stepanov, 1997 The use of diffractive and gradient index GRIN lenses as components of imaging optical systems has been investigated for several decades The elements have proved competitive in their unique focusing and aberration properties and in terms of their additional degrees of freedom for optical design This book systematically examines the physical principles of diffractive and GRIN elements *Semiconductor TeraHertz Technology* Guillermo Carpintero, Enrique Garcia-Munoz, Hans Hartnagel, Sascha Preu, Antti Raisanen, 2015-09-28 Key advances in Semiconductor Terahertz THz Technology now promises important new applications enabling scientists and engineers to overcome the challenges of accessing the so called terahertz gap This pioneering reference explains the fundamental methods and surveys innovative techniques in the generation detection and processing of THz waves with solid state devices as well as illustrating their potential applications in security and telecommunications among other fields With contributions from leading experts Semiconductor Terahertz Technology Devices and Systems at Room Temperature Operation comprehensively and systematically covers semiconductor based room temperature operating sources such as photomixers THz antennas radiation concepts and THz propagation as well as room temperature operating THz detectors The second part of the book focuses on applications such as the latest photonic and electronic THz systems as well as emerging THz technologies including whispering gallery resonators liquid crystals metamaterials and graphene based devices This book will provide support for practicing researchers and professionals and will be an indispensable reference to graduate students in the field of THz technology Key features Includes crucial theoretical background sections to photomixers photoconductive switches and electronic THz generation detection Provides an extensive overview of semiconductor based THz sources and applications Discusses vital technologies for affordable THz applications Supports teaching and studying increasingly popular courses on semiconductor THz technology **1995 IEEE LEOS Annual Meeting** IEEE Lasers & Electro-Optics Society, Lasers and Electro-optics Society (Institute of Electrical and Electronics Engineers). Meeting, Lasers and Electro Optics Society, 1995 *Conference Proceedings*, 1995 **Conference on Lasers and Electro-optics, 26 April-1 May 1987, OSA/IEEE, Baltimore, Maryland** Institute of Electrical and Electronics Engineers, Lasers and Electro-optics Society (Institute of Electrical and Electronics Engineers), Optical Society of America, 1987 *Scientific and Technical Aerospace Reports*, 1994 *Digest of Technical Papers*, 1987 *Physics Briefs*, 1994-07 *Applied Science & Technology Index*, 2000 *Polymer Reactivity* Gennadiĭ Efremovich Zaikov, 2006 This book is devoted to examining the order and disorder in polymers Understanding these factors is important because they define diffusion properties molecule motion speed in the polymeric matrix and the solubility of low molecular substances in polymers Conference on Lasers and Electrooptics, 10-12 June 1981, IEEE/OSA, Washington, D.C., 1981 Electromagnetic Vortices Zhi Hao Jiang, Douglas H.

Werner,2021-12-29 Discover the most recent advances in electromagnetic vortices In Electromagnetic Vortices Wave Phenomena and Engineering Applications a team of distinguished researchers delivers a cutting edge treatment of electromagnetic vortex waves including their theoretical foundation related wave properties and several potentially transformative applications The book is divided into three parts The editors first include resources that describe the generation sorting and manipulation of vortex waves as well as descriptions of interesting wave behavior in the infrared and optical regimes with custom designed nanostructures They then discuss the generation multiplexing and propagation of vortex waves at the microwave and millimeter wave frequencies Finally the selected contributions discuss several representative practical applications of vortex waves from a system perspective With coverage that incorporates demonstration examples from a wide range of related sub areas this essential edited volume also offers Thorough introductions to the generation of optical vortex beams and transformation optical vortex wave synthesizers Comprehensive explorations of millimeter wave metasurfaces for high capacity and broadband generation of vector vortex beams as well as orbital angular momentum OAM detection and its observation in second harmonic generations Practical discussions of microwave SPP circuits and coding metasurfaces for vortex beam generation and OAM based structured radio beams and their applications In depth examinations and explorations of OAM multiplexing for wireless communications wireless power transmission as well as quantum communications and simulations Perfect for students of wireless communications antenna RF design optical communications and nanophotonics Electromagnetic Vortices Wave Phenomena and Engineering Applications is also an indispensable resource for researchers in academia at large defense contractors and in government labs

Journal of the Optical Society of America ,1986 **Electrical & Electronics Abstracts** ,1994 **Optics Index** ,1990 **Uspekhi fizicheskikh nauk** ,2007 **Conference on Lasers and Electro-Optics** Optical Society of America,1992 **Summaries of Papers Presented at the Conference on Lasers and Electro-optics** ,1989 Journal of the Optical Society of America Optical Society of America,1955 Separately paged supplements accompany a few issues

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