

Methods For Computer Design Of Diffractive Optical Elements

Karl-Heinz Brenner, Jürgen Jahns

Methods For Computer Design Of Diffractive Optical Elements:

Methods for Computer Design of Diffractive Optical Elements Soifer, 2002-03-01 Methods for Computer Design of <u>Diffractive Optical Elements</u> Victor A. Soifer, 2002 The first inclusive book on the cutting edge field of modern optics and its applications For the first time all the major aspects of designing planar DOEs are covered in one book comprised of original methods developed by experts at the Russian Academy of Sciences Image Processing Systems Institute The breadth of Methods for Computer Design of Diffractive Optical Elements covers DOE production beginning from the design techniques and the software to the fabrication technology experimental studies and testing of DOEs including all major DOE application fields and DOE types The contributors also detail the three key approaches to designing phase DOEs a geometric optics ray tracing method the scalar diffraction Kirchhoff method and the rigorous design based on electromagnetic theory Methods for Computer Design of Diffractive Optical Elements is an estimable reference for experts in the aerospace industry research and development institutes the automobile industry as well as students and university professors Iteractive Methods For Diffractive Optical Elements Computation Victor A. Soifer, V Kotlar, L. Doskolovich, 1997-05-08 This high level monograph for the optics research market explores a large number of novel interactive methods and algorithms for calculating the transmission function of phase diffractive optical elements The text includes accounts of well established methods and algorithms for calculating DOEs but its major contribution is to include current methods and examine the theoretical and practical aspects of synthesising optical components All the methods discussed in this book have been verified by their numerical simulation A fast fourier transform algorithm presents computational basis of all the methods considered A portion of the algorithms have received a comparative study in terms of their suitability for solving the same problem For a number of the interactive algorithms a rigorous proof to their convergence is given Computer Design of Diffractive Optics V A Soifer, 2012-11-19 Diffractive optics involves the manipulation of light using diffractive optical elements DOEs DOEs are being widely applied in such areas as telecommunications electronics laser technologies and biomedical engineering Computer design of diffractive optics provides an authoritative guide to the principles and applications of computer designed diffractive optics. The theoretical aspects underpinning diffractive optics are initially explored including the main equations in diffraction theory and diffractive optical transformations Application of electromagnetic field theory for calculating diffractive gratings and related methods in micro optics are discussed as is analysis of transverse modes of laser radiation and the formation of self replicating multimode laser beams Key applications of DOEs reviewed include geometrical optics approximation scalar approximation and optical manipulation of micro objects with additional consideration of multi order DOEs and synthesis of DOEs on polycrystalline diamond films With its distinguished editor and respected team of expert contributors Computer design of diffractive optics is a comprehensive reference tool for professionals and academics working in the field of optical engineering and photonics Explores the theoretical aspects underpinning diffractive optics Discusses

key applications of diffractive optical elements A comprehensive reference for professionals and academics in optical engineering and photonics Diffractive Nanophotonics Victor A Soifer, 2016-04-19 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 t Diffractive Optics and Nanophotonics V. A. Soifer, 2017-09-01 Diffractive Optics and Nanophotonics is devoted to achievements in diffractive optics focusing on the creation of new nanophotonic components and devices as well as instrumentation and available information technology The author describes methods of calculation of diffractive optical elements to solve actual problems of nanophotonics Coverage includes mathematical methods for calculation of diffraction gratings calculation of modes of inhomogeneous waveguides integral methods of calculation of electromagnetic field near the focus and methods of calculation of diffractive optical elements generating vortex laser beams Compendium On Electromagnetic Analysis - From Electrostatics To Photonics: Fundamentals And Applications For Physicists And Engineers (In 5 Volumes), 2020-06-15 The five volume set may serve as a comprehensive reference on electromagnetic analysis and its applications at all frequencies from static fields to optics and photonics The material includes micro and nanomagnetics the new generation of electric machines renewable energy hybrid vehicles low noise motors antennas and microwave devices plasmonics metamaterials lasers and more Written at a level accessible to both graduate students and engineers Electromagnetic Analysis is a comprehensive reference covering methods and applications at all frequencies from statics to optical Each volume contains pedagogical tutorial material of high archival value as well as chapters on state of the art developments Handbook of Laser Technology and Applications (Three-**Volume Set)** Colin Webb, Julian D. C. Jones, 2003-12-01 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists a **Diffractive Optics** Donald C. O'Shea, 2004 This book provides the reader with the broad range of materials that were discussed in a series of short courses presented at Georgia Tech on the design fabrication and testing of diffractive optical elements DOEs Although there are not long derivations or detailed methods for specific engineering calculations the reader should be familiar and comfortable with basic computational techniques This text is not a cookbook for producing DOEs but it should provide readers with sufficient information to assess whether this technology would benefit their work and to understand the requirements for using the concepts and techniques presented by **Diffractive Optics and Optical Microsystems** S. Martellucci, Arthur N. Chester, 2013-06-29 Proceedings of the authors the 20th Course of the International School of Quantum Electronics held in Erice Italy November 14 24 1996 Handbook of Laser Technology and Applications Colin Webb, Julian D.C. Jones, 2020-09-29 The invention of the laser was one of the

towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists and engineers who work with lasers The Handbook provides a comprehensive guide to the current status of lasers and laser systems it is accessible to science or engineering graduates needing no more than standard undergraduate knowledge of optics Whilst being a self contained reference work the Handbook provides extensive references to contemporary work and is a basis for studying the professional journal literature on the subject It covers applications through detailed case studies and is therefore well suited to readers who wish to use it to solve specific problems of their own The first of the three volumes comprises an introduction to the basic scientific principles of lasers laser beams and non linear optics. The second volume describes the mechanisms and operating characteristics of specific types of laser including crystalline solid state lasers semiconductor diode lasers fibre lasers gas lasers chemical lasers dye lasers and many others as well as detailing the optical and electronic components which tailor the laser's performance and beam delivery systems. The third volume is devoted to case studies of applications in a wide range of subjects including materials processing optical measurement techniques medicine telecommunications data storage spectroscopy earth sciences and astronomy and plasma fusion research This vast compendium of knowledge on laser science and technology is the work of over 130 international experts many of whom are recognised as the world leaders in their respective fields Whether the reader is engaged in the science technology industrial or medical applications of lasers or is researching the subject as a manager or investor in technical enterprises they cannot fail to be informed and enlightened by the wide range of information the Handbook supplies Cavity Quantum Electrodynamics Sergio M. Dutra, 2005-05-27 What happens to light when it is trapped in a box Cavity Quantum Electrodynamics addresses a fascinating question inphysics what happens to light and in particular to itsinteraction with matter when it is trapped inside a box With theaid of a model building approach readers discover the answer tothis question and come to appreciate its important applications incomputing cryptography quantum teleportation andopto electronics Instead of taking a traditional approach that requires readers to first master a series of seemingly unconnected mathematical techniques this book engages the readers interestand imagination by going straight to the point introducing themathematics along the way as needed Appendices are provided forthe additional mathematical theory Researchers scientists and students of modern physics can refer to Cavity Quantum Electrodynamics and examine the field thoroughly Several key topics covered that readers cannot find in any other quantum optics book include Introduction to the problem of the vacuum catastrophe and the cosmological constant Detailed up to date account of cavity QED lasers andthresholdless lasing Examination of cavities with movable walls First principles discussion about cavity QED in opencavities Pedagogical account of microscopic quantization indielectrics Complementing the coverage of the most advanced theory andtechniques the author provides context by discussing the historical evolution of the field and

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systems mobile communications etc It includes a simple but comprehensive introduction to micro optical developments design and an overview of fabrication and replication technology. The theoretical practical and industrial developments in micro scale optoelectronics continue apace in the late 1990s In this book a distinguished group of physicists and engineers describe the current state of research and applications in micro optics It provides the theoretical background and an overview of current technology with several chapters taking a deeper look at specific recent applications and future trends The book concentrates on diffractive and refractive micro optical elements such as lenses fan out gratings optimized phase elements and polarisers Sections are included on the simulation and optimization of design for micro optics and subsequently the efficient transformation from design to real optical elements using techniques such as e beam writing laser beam writing lithography etching and thin film deposition Laser Beam Shaping ,2001 **Three-Dimensional Holographic Imaging** Chung J. Kuo, Meng Hua Tsai, 2003-03-25 A comprehensive survey of the state of the art in 3 D holographic imaging techniques and applications This book introduces the general concepts of both real time and non real time 3 D holographic imaging techniques for scientific and engineering applications It offers readers a fundamental understanding of the concepts of 3 D holographic imaging as well as cost effective design and implementation World renowned experts in the field provide in depth discussion of the following topics Holograms of real and virtual point trajectories Self stabilized real time holographic recording Principles and applications of optical scanning holography Tangible dynamic holographic images Holographic laser radar Preliminary studies on compression of interference patterns in electronic holography Photoelectronic principles components and applications Design and implementation of computer generated hologram and diffractive optical elements Catastrophe analysis as the basis for visual perception Three Dimensional Holographic Imaging is the most complete survey available of the fundamental topics in the field ideal for electrical engineers optical scientists and advanced CAD CAM systems engineers engaged in the design and construction of advanced imaging systems **Practical Holography** Graham Saxby, Stanislovas Zacharovas, 2015-09-22 Continuing in the steps of its predecessors the fourth edition of Practical Holography provides the most comprehensive and up to date resource available Focused on practical techniques in holography at all levels it avoids any unnecessary mathematical theory Features of the Fourth EditionHighlights new information on color holograms sensitive m **International Trends in Optics and Photonics** Toshimitsu Asakura, 2013-06-05 This book gives a broad and authoritative overview of research currently underway in the fields of optical science and engineering throughout the world The contributions which are written by internationally renowned scientists are of particular interest to specialists and nonspecialists in the many disciplines covered They are less formal than the standard technical reviews found in academic journals and this is what makes the book accessible to readers who are not specialists in optical science and engineering

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