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Gradient-Index Optics

Fundamentals and Applications



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**Zujie Fang, Ken Chin, Ronghui
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Gradient-Index Optics C. Gomez-Reino, M.V. Perez, C. Bao, 2012-12-06 Gradient Index GRIN optics provides a comprehensive and thorough treatment on fundamentals and applications of light propagation through inhomogeneous media The book can be used both as a classroom text for students in physics and engineering and as a reference for specialists A description of the phenomena components and technology used in GRIN Optics are presented The relationship to lenses waveguides optical connections spatial solitons and vision is demonstrated Applications of GRIN components and hybrid structures for optical connections optical sensing and Talbot effect are analyzed *Fundamentals of Photonics* Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated [Physics and Engineering of Graded-Index Media](#) Govind P. Agrawal, 2023-08-10 Optical materials with varying refractive indices are called graded index GRIN media and they are widely used within many industries including telecommunications and medical imaging Another recent application is space division multiplexing an enormously improved technique for optical data transmission This book synthesises recent research developments in this growing field presenting both the underlying physical principles behind optical propagation in GRIN media and the most important engineering applications The principles of wave optics are employed for solving Maxwell's equations inside a GRIN medium ensuring that diffractive effects are fully included The mathematical development builds gradually and a variety of exact and approximate techniques for solving practical problems are included in addition to coverage of modern topics such as optical vortices photonic spin orbit coupling photonic crystals and metamaterials This text will be useful for graduate students and researchers working in optics photonics and optical communications

Introduction to Nonimaging Optics Julio Chaves, 2017-12-19 Introduction to Nonimaging Optics covers the theoretical foundations and design methods of nonimaging optics as well as key concepts from related fields This fully updated revised and expanded Second Edition Features a new and intuitive introduction with a basic description of the advantages of nonimaging optics Adds new chapters on wavefronts for a prescribed output irradiance or intensity infinitesimal tendue optics generalization of the aplanatic optics and K hler optics and color mixing Incorporates new material on the simultaneous multiple surface SMS design method in 3 D integral invariants and tendue 2 D Contains 21 chapters 24 fully worked and several other examples and 1 000 illustrations including photos of real devices Addresses applications ranging from solar energy concentration to illumination engineering Introduction to Nonimaging Optics Second Edition invites newcomers to explore the growing field of nonimaging optics while providing seasoned veterans with an extensive reference book

Plasmonics and Super-Resolution Imaging Zhaowei Liu, 2017-06-26 Plasmonics is an emerging field mainly developed within the past two decades Due to its unique capabilities to manipulate light at deep subwavelength scales plasmonics has been commonly treated as the most important part of nanophotonics Plasmonic assisted optical microscopy techniques especially super resolution microscopy have shown tremendous potential and attracted much attention This book aims to collect cutting edge studies in various optical imaging technologies with advanced performances that are enabled or enhanced by plasmonics The basic working principles development details and potential future direction and perspectives are discussed Edited by Zhaowei Liu a prominent researcher in the field of super resolution microscopy this book will be an excellent reference for anyone in the field of nanophotonics plasmonics and optical microscopy

Advances in Imaging and Electron Physics , 2025-08-01 Advances in Imaging and Electron Physics Volume 235 merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy Chapters in this release cover Unified formalism of light beam optics and light polarization Relativistic Theory and Calculation of Electrostatic Focusing Systems A Nonlinear Representation Theory of Equivariant Deep Learning Using Group Morphology Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Imaging and Electron Physics series

Springer Handbook of Lasers and Optics Frank Träger, 2012-05-05 This new edition features numerous updates and additions Especially 4 new chapters on Fiber Optics Integrated Optics Frequency Combs and Interferometry reflect the changes since the first edition In addition major complete updates for the chapters Optical Materials and Their Properties Optical Detectors Nanooptics and Optics far Beyond the Diffraction Limit Features Contains over 1000 two color illustrations Includes over 120 comprehensive tables with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references

Fundamentals and Basic Optical Instruments Daniel Malacara Hernández, 2017-11-22 Fundamentals and Basic Optical Instruments includes thirteen chapters providing an

introductory guide to the basics of optical engineering instrumentation and design Topics include basic geometric optics basic wave optics and basic photon and quantum optics Paraxial ray tracing aberrations and optical design and prisms and refractive optical components are included Polarization and polarizing optical devices are covered as well as optical instruments such as telescopes microscopes and spectrometers *Vortex Dynamics* İlkey Bakırtaş,Nalan Antar,2022-09-28 This book discusses vortex dynamics theory from physics mathematics and engineering perspectives It includes nine chapters that cover a variety of research results related to vortex dynamics including nonlinear optics fluid dynamics and plasma physics Photonic Devices and Algorithms for Computing ,2002 **Optical Properties of Materials and Their Applications** Jai Singh,2020-01-07 Provides a semi quantitative approach to recent developments in the study of optical properties of condensed matter systems Featuring contributions by noted experts in the field of electronic and optoelectronic materials and photonics this book looks at the optical properties of materials as well as their physical processes and various classes Taking a semi quantitative approach to the subject it presents a summary of the basic concepts reviews recent developments in the study of optical properties of materials and offers many examples and applications Optical Properties of Materials and Their Applications 2nd Edition starts by identifying the processes that should be described in detail and follows with the relevant classes of materials In addition to featuring four new chapters on optoelectronic properties of organic semiconductors recent advances in electroluminescence perovskites and ellipsometry the book covers optical properties of disordered condensed matter and glasses concept of excitons photoluminescence photoinduced changes and electroluminescence in noncrystalline semiconductors and photoinduced bond breaking and volume change in chalcogenide glasses Also included are chapters on nonlinear optical properties of photonic glasses kinetics of the persistent photoconductivity in crystalline III V semiconductors and transparent white OLEDs In addition readers will learn about excitonic processes in quantum wells optoelectronic properties and applications of quantum dots and more Covers all of the fundamentals and applications of optical properties of materials Includes theory experimental techniques and current and developing applications Includes four new chapters on optoelectronic properties of organic semiconductors recent advances in electroluminescence perovskites and ellipsometry Appropriate for materials scientists chemists physicists and electrical engineers involved in development of electronic materials Written by internationally respected professionals working in physics and electrical engineering departments and government laboratories Optical Properties of Materials and Their Applications 2nd Edition is an ideal book for senior undergraduate and postgraduate students and teaching and research professionals in the fields of physics chemistry chemical engineering materials science and materials engineering Diseño y fabricación de dispositivos híbridos planares para micro-óptica mediante irradiación y ablación láser de sustratos de vidrio. Antonio Castelo Porta, **Tomographic reconstruction of gradient indices with rotational symmetry. Application to crystalline lenses.** , Fundamentals of Optical Fiber Sensors Zujie Fang,Ken Chin,Ronghui Qu,Haiwen Cai,2012-08-10

This book describes the latest development in optical fiber devices and their applications to sensor technology. Optical fiber sensors, an important application of the optical fiber, have experienced fast development and attracted wide attentions in basic science as well as in practical applications. Sensing is often likened to human sense organs. Optical fiber can not only transport information acquired by sensors at high speed and large volume but also can play the roles of sensing element itself. Compared with electric and other types of sensors, fiber sensor technology has unique merits. It has advantages over conventional bulky optic sensors such as combination of sensing and signal transportation, smaller size and possibility of building distributed systems. Fiber sensor technology has been used in various areas of industry, transportation, communication, security and defense as well as daily life. Its importance has been growing with the advancement of the technology and the expansion of the scope of its application, a growth this book fully describes.

Micro-Optics H. P. Herzig, 1997-04-26 This text examines the technology behind the plethora of modern industrial and domestic technologies which incorporate micro optics eg CD's, cameras, automated manufacturing systems, mobile communications etc. It includes a simple but comprehensive introduction to micro optical developments, design and an overview of fabrication and replication techniques.

Microoptics Technology Nicholas F. Borrelli, 2017-11-13 It has been five years since the publication of the first edition of Microoptics Technology. In that time optical technology has experienced an unparalleled burst of activity that has produced a body of significant real results that have advanced new materials, devices and systems. Building on the foundation of the first edition, this comprehensive reference presents an introduction and review of the optics and methods of microoptic elements with particular emphasis on lenses and lens arrays. The author explores advances that emerged from the flurry of activity over the last five years. With two new chapters and another fully expanded, the book covers current and new methods of fabrication of microlenses as well as refractive GRIN and diffractive methods. It also includes chapters on optical devices that utilize the microoptic fabrication methods including micro diffraction gratings and optical isolators together with a discussion of a number of important applications. See what's new in the Second Edition. Coverage of negative refractive index materials. Information on femto second laser interaction with materials. Chapter on photonic crystal has been extensively expanded. The first edition was the first resource to collect all microlens fabrication methods into a single volume. With more than 600 references, tables, equations, drawings and photographs, Microoptics Technology Second Edition replaces its predecessor as the gold standard reference in this field.

Waves in Gradient Metamaterials Aleksandr Borisovich Shvartsburg, Alexei A. Maradudin, 2013 This book opens a new avenue to an engendering field of applied physics located at the OC crossing of modern photonics, electromagnetics, acoustics and material science. It also highlights the concept of OC non locality, which proves to be not a special feature of quantum phenomena but is shown to have an important counterpart in classical physics and its engineering applications too. Furthermore, it visualizes the physical results by means of simple analytical presentations, reduced sometimes to the elementary functions.

Scientific and Technical Aerospace

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