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to the technological development, physical  
background and key areas. The opening  
chapters on the physics of light are

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complemented by chapters on refractive and diffractive optical elements. The internationally renowned authors present different methods of lithographic and nonlithographic fabrication of microoptics and introduce the characterization and testing of microoptics.

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Synopsis. This first textbook on both micro- and nanooptics introduces readers to the technological development, physical background and key areas. The opening chapters on the physics of light are complemented by chapters on refractive and diffractive optical elements. The internationally renowned authors present

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different methods of lithographic and nonlithographic fabrication of microoptics and introduce the characterization and testing of microoptics.

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first textbook on both micro and nanooptics introduces readers to the technological development physical background and key areas the opening chapters on the physics of light

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provides the reader with an introduction

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into the technological development, the physical background and the most important areas of micro- and nanooptics. The opening chapters on the physics of light are complemented by chapters on refractive and diffractive optical elements. The authors present different methods of lithographic and nonlithographic

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fabrication of microoptics and introduce the reader to characterization and testing of microoptics. The second part of the book is dedicated to....

From optical fundamentals to advanced applications, this comprehensive guide to micro-optics covers all the key areas for

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those who need an in-depth introduction to micro-optic devices, technologies, and applications. Topics covered range from basic optics, optical materials, refraction, and diffraction, to micro-mirrors, micro-lenses, diffractive optics, optoelectronics, and fabrication. Advanced topics, such as tunable and nano-optics, are also

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discussed. Real-world case studies and numerous worked examples are provided throughout, making complex concepts easier to follow, whilst an extensive bibliography provides a valuable resource for further study. With exercises provided at the end of each chapter to aid and test understanding, this is an ideal textbook for

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graduate and advanced undergraduate students taking courses in optics, photonics, micro-optics, microsystems, and MEMs. It is also a useful self-study guide for research engineers working on optics development.

Fully revised and in its second edition, this

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standard reference on nano-optics is ideal for graduate students and researchers alike.

This textbook introduces the general points of view of research methodology in the scientific and engineering fields of studies and presents an overview of the

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technical and professional communication needed for article publication in journals. It comprises several practice exercises that will give beginners the confidence to move on the communicative activities. Every chapter provides problem sets that will help readers check their understanding of each concept. The book will also help



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readers formulate specific research topics, research questions, and hypotheses; conduct literature reviews relevant to the research topics; develop applicable research methodologies; and write and present their research outlining the key elements of the proposed projects. It is very useful for students and researchers

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opting for a course on research methodology and for seminars at undergraduate and graduate levels.

Nano-Optics: Fundamentals, Experimental Methods, and Applications offers insights into the fundamentals and industrial applications of nanoscale light-emitting

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materials and their composites. This book serves as a reference, offering an overview of existing research, with a particular focus on industrial applications. Nanooptics is the branch of nanoscience and nanotechnology that deals with interaction of light with nanoscale objects. This book explores the materials, structure,

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manufacturing techniques, and industrial applications of nano-optics. The applications discussed include healthcare, communication, astronomy, and satellites. Explains the major manufacturing techniques for light-emitting nanoscale materials Discusses how nanoscale optical materials are being used in a range of

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industrial applications Assesses the challenges of using nano-optics in a mass-production context

The deep interconnection between micro/nanooptical components and related fabrication technologies—and the constant changes in this ever-evolving field—means

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that successful design depends on the engineer's ability to accommodate cutting-edge theoretical developments in fabrication techniques and experimental realization. Documenting the state of the art in fabrication processes, Microoptics and Nanooptics Fabrication provides an up-to-date synopsis of recent breakthroughs in

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micro- and nanooptics that improve key developmental processes. This text elucidates the precise and miniaturized scale of today's fabrication methods and their importance in creating new optical components to access the spectrum of physical optics. It details successful fabrication techniques and their direct

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effect on the intended performance of micro- and nanooptical components. The contributors explore the constraints related to material selection, component lateral extent, minimum feature size, and other issues that cause fabrication techniques to lag behind corresponding theory in the development process. Written with the



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professional optical engineer in mind, this book omits the already well-published broader processing fundamentals. Instead it focuses on key tricks of the trade helpful in reformulating processes to achieve necessary optical targets, improve process fidelity, and reduce production costs. The contributing authors represent the

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vanguard in micro-optical fabrication. The result of their combined efforts, this searing analysis of emerging fabrication technologies will continue to fuel the expansion of optics components, from the microwave to the infrared through the visible regime.

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"Thin-film microoptics" stands for novel types of microoptical components and systems which combine the well-known features of miniaturized optical elements with the specific advantages of thin optical layers. This approach enables for

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innovative solutions in shaping light fields in spatial, temporal and spectral domain. Low-dispersion and small-angle systems for tailoring and diagnosing laser pulses under extreme conditions as well as VUV-capable microoptics can be realized. Continuous-relief microstructures of refractive, reflective and hybrid

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characteristics are obtained by vapor deposition technologies with shadow masks in rotating systems. The book gives a comprehensive overview on fundamental laws of microoptics, types of thin-film microoptical components, methods and constraints of their design, fabrication and characterization, structure transfer into

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substrates, optical functions and applications. Recent theoretical and experimental results of basic and applied research are addressed. Particular emphasis will be laid on the generation of localized, nondiffracting few-cycle wavepackets of extended depth of focus and high tolerance against distortions. It is

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shown that the spectral interference of ultrabroadband conical beams results in spatio-temporal structures of characteristic X-shape, so-called X-waves, which are interesting for robust optical communication. New prospects are opened by exploiting small conical angles from nanolayer microoptics and self-apodized

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truncation of Bessel beams leading to the formation of single-maximum nondiffracting beams or "needle beams". Thin-film microoptical beam shapers have an enormous potential for future applications like the two-dimensional ultrafast optical processing, multichannel laser-matter interaction, nonlinear



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spectroscopy or advanced measuring techniques. - Introduces a new and promising branch of microoptics - Gives a compact overview on the types, properties and applications of the most important microoptical components containing valuable data and facts - Helps to understand the basic optical laws - Reports

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on the historical development line of thin-film microoptics - Provides brand new results of research and development in the field of ultrashort-pulse laser beam shaping and diagnostics - Discusses the future trends and first approaches of next generation microoptics - Contains a carefully assorted glossary of the most

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important technical terms

Miniaturization and mass replications have begun to lead the optical industry in the transition from traditional analog to novel digital optics. As digital optics enter the realm of mainstream technology through the worldwide sale of consumer electronic

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devices, this timely book aims to present the topic of digital optics in a unified way. Ranging from micro-optics to nanophotonics, and design to fabrication through to integration in final products, it reviews the various physical implementations of digital optics in either micro-refractives, waveguide (planar

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lightwave chips), diffractive and hybrid optics or sub-wavelength structures (resonant gratings, surface plasmons, photonic crystals and metamaterials). Finally, it presents a comprehensive list of industrial and commercial applications that are taking advantage of the unique properties of digital optics. Applied

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Digital Optics is aimed primarily at optical engineers and product development and technical marketing managers; it is also of interest to graduate-level photonics students and micro-optic foundries. Helps optical engineers review and choose the appropriate software tools to design, model and generate fabrication files. Gives

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product managers access to an exhaustive list of applications available in today's market for integrating such digital optics, as well as where the next potential application of digital optics might be. Provides a broad view for technical marketing managers in all aspects of digital optics, and how such optics can be

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classified. Explains the numerical implementation of optical design and modelling techniques. Enables micro-optics foundries to integrate the latest fabrication and replication techniques, and accordingly fine tune their own fabrication processes.



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Edited and authored by leading experts from top institutions in Europe, the US and Asia, this comprehensive overview of micro- and nanophotonics covers the physical and chemical fundamentals, while clearly focusing on the technologies and applications in industrial R&D. As such, the book reports on the four main areas of

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telecommunications and display technologies; light conversion and energy generation; light-based fabrication of materials; and micro- and nanophotonic devices in metrology and control.

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