

SERIES IN OPTICS AND OPTOELECTRONICS

# Molded Optics

## Design and Manufacture



Michael Schaub • Jim Schwiegerling  
Eric C. Fest • Alan Symmons  
R. Hamilton Shepard



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A TAYLOR & FRANCIS BOOK

# Molded Optics Design And Manufacture Series In Optics

**Xiaolong Qi**



## **Molded Optics Design And Manufacture Series In Optics:**

*Molded Optics* Michael Schaub, Jim Schwiegerling, Eric Fest, R. Hamilton Shepard, Alan Symmons, 2016-04-19 While several available texts discuss molded plastic optics none provide information on all classes of molded optics Filling this gap *Molded Optics Design and Manufacture* presents detailed descriptions of molded plastic glass and infrared optics Since an understanding of the manufacturing process is necessary to develop cost effective products **Molded Optics** Michael Schaub, Jim Schwiegerling, Eric Fest, R. Shepard, Alan Symmons, 2016 While several available texts discuss molded plastic optics none provide information on all classes of molded optics Filling this gap *Molded Optics Design and Manufacture* presents detailed descriptions of molded plastic glass and infrared optics Since an understanding of the manufacturing process is necessary to develop cost effective producible designs the book extensively covers various manufacturing methods design guidelines trade offs best practices and testing of critical parameters It also discusses topics that often arise when designing systems with molded optics such as mitigating stray light and mating systems by eye The first three chapters of the book focus on subjects important to the design of systems using molded optics optical design visual optics and stray light Following these background chapters the text provides in depth information on the design and manufacture of molded plastic optics molded glass optics and molded infrared optics The final chapter on testing emphasizes the special characteristics of molded optics Experts in their particular areas the authors draw on their considerable knowledge and real world experiences to give a thorough account of the design and manufacture of molded plastic glass and infrared optics The book will help readers improve their ability to develop systems that employ molded optics *Handbook of Plastic Optics* Stefan Bäumer, 2006-03-06 The use of plastic optics instead of glass offers a number of advantages Most importantly it is far less expensive and therefore opens a huge potential for mass production It also offers the opportunity to use unique element configuration This book gives a coherent overview over the current status of injection molded optics describing in detail all aspects of plastic optics from design issues to production technology and quality control The focus is firmly set on practical applications making this an indispensable information source for all those working in optics research and development The contributors each one a leading expert in his chosen discipline possess either a background in industry or close relations to the industry thus bringing in an ample amount of practical experience *Nitride Phosphors and Solid-State Lighting* Rong-Jun Xie, Yuan Qiang Li, Naoto Hirosaki, Hajime Yamamoto, 2016-04-19 *Nitride Phosphors and Solid State Lighting* provides an in depth introduction to the crystal chemistry synthesis luminescence and applications of phosphor materials for solid state lighting mainly focusing on new nitride phosphors Drawing on their extensive experimental work the authors offer a multidisciplinary study of phosphor materials that encompasses materials science inorganic chemistry solid state chemistry solid state physics optical spectroscopy crystal field theory and computational materials science The book begins with an introduction to the principles semiconductor phosphor materials and characterizations of solid state lighting and white light

emitting diodes LEDs It then discusses the optical and luminescence processes occurring in optically active centers of solid materials and presents the photoluminescence properties of traditional phosphors for white LEDs including garnets aluminates silicates sulfides oxysulfides phosphates and scheelites The remainder of the text focuses on newly developed nitride phosphors The authors describe the crystal chemistry of general nitride compounds the crystal structure and photoluminescence properties of new nitride phosphors and synthetic methods for preparing nitride phosphors They detail the structural analysis of nitride phosphors and present experimental and computational results of typical nitride phosphors The authors also examine key issues such as excitation and emission spectra thermal quenching and quantum efficiency The final chapter explores applications of nitride phosphors in white LEDs for general lighting and LCD backlight purposes Covering novel luminescent materials this book brings you up to date on the evolving field of solid state lighting It illustrates the fundamentals synthesis properties and applications of the latest nitride phosphor materials

**Handbook of Optomechanical Engineering** Anees Ahmad,2017-07-11 This comprehensive handbook covers all major aspects of optomechanical engineering from conceptual design to fabrication and integration of complex optical systems The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design development and integration of modern optical systems for commercial space and military applications Charts tables figures and photos augment this already impressive text Fully revised the new edition includes 4 new chapters Plastic optics Optomechanical tolerancing and error budgets Analysis and design of flexures and Optomechanical constraint equations

**Biomimetics in Photonics** Olaf Karthaus,2012-10-26 Biomimetic photonics is a burgeoning field Biologists are finding and describing a whole menagerie of unique and astonishingly complex nano and microstructures in fauna and flora Material scientists are developing novel multifunctional and hierarchical structures with a wide variety of post nano era photonics applications Mathematicians and com

**Opto-Mechanical Systems Design** Paul R. Yoder Jr.,2005-12-09 After nearly two decades Paul Yoder s Opto Mechanical Systems Design continues to be the reference of choice for professionals fusing optical and mechanical components into advanced high performance instruments Yoder s authoritative systems oriented coverage and down to earth approach fosters the deep seated knowledge needed to continually push

**Field Guide to Molded Optics** Alan Symmons,Michael P. Schaub,2016 The most common optical molding technologies are injection molding of optical plastics and precision glass molding This Field Guide primarily focuses on these two technologies but also covers the full spectrum of optical molding It provides a convenient and concise source of knowledge on optical molding technologies and is a valuable addition to the publication base

**The Optical Industry & Systems Directory** ,1978 **Optical Spectra** ,1978 **The Photonics Directory** ,1996 **Photonics Spectra** ,1991 **Precision Lens Molding of Glass: A Process Perspective** Jayson J. Nelson,2020-04-10 This book highlights the tools and processes used to produce high quality glass molded optics using commercially available equipment Combining scientific data with easy to understand explanations of

specific molding issues and general industry information based on firsthand studies and experimentation it provides useful formulas for readers involved in developing develop in house molding capabilities or those who supply molded glass optics Many of the techniques described are based on insights gained from industry and research over the past 50 years and can easily be applied by anyone familiar with glass molding or optics manufacturing There is an abundance of information from around the globe but knowledge comes from the application of information and there is no knowledge without experience This book provides readers with information to allow them to gain knowledge and achieve success in their glass molding endeavors **Thomas Register of American Manufacturers** ,2003 Vols for 1970 71 includes manufacturers catalogs

**An Elementary Treatise on Geometrical Optics** William Steadman Aldis,1893 *An Introduction to Applied Optics* Louis Claude Martin,1930 *Optical Workshop Notebook: 1974-1975* Joseph B. Houston,1975 Selected Papers on Optomechanical Design Donald C. O'Shea,1988 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics *Contemporary Methods of Optical Manufacturing and Testing* Gregory M. Sanger,1983 *Medical Device Register* ,2007 Contains a list of all manufacturers and other specified processors of medical devices registered with the Food and Drug Administration and permitted to do business in the U S with addresses and telephone numbers Organized by FDA medical device name in alphabetical order Keyword index to FDA established standard names of medical devices

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