



OPTICAL SCIENCE AND ENGINEERING SERIES

Near-Earth Laser Communications

SECOND EDITION

Edited by
Hamid Hemmati



CRC Press
Taylor & Francis Group

Near Earth Laser Communications Optical Science And Engineering

Chao Zhang

Near Earth Laser Communications Optical Science And Engineering:

Near-Earth Laser Communications, Second Edition Hamid Hemmati, 2020-09-20 This reference provides an overview of near Earth laser communication theory developments including component and subsystem technologies fundamental limitations and approaches to reach those limits. It covers basic concepts and state of the art technologies emphasizing device technology implementation techniques and system trades. The authors discuss hardware technologies and their applications and also explore ongoing research activities and those planned for the near future. This new edition includes major to minor revisions with technology updates on nearly all chapters. *Near-Earth Laser Communications* Hamid Hemmati, 2018-10-03 Invented more than a hundred years ago by Alexander Graham Bell the technology of free space optical communications or lasercom has finally reached the level of maturity required to meet a growing demand for operational multi giga bit per second data rate systems communicating to and from aircrafts and satellites. Putting the emphasis on near earth links including air LEO MEO and GEO orbits. *Near Earth Laser Communications* presents a summary of important free space laser communication subsystem challenges and discusses potential ways to overcome them. This comprehensive reference provides up to date information on component and subsystem technologies fundamental limitations and approaches to reach those limits. It covers basic concepts and state of the art technologies emphasizing device technology implementation techniques and system trades. The authors discuss hardware technologies and their applications and also explore ongoing research activities and those planned for the near future. The analytical aspects of laser communication have been covered to a great extent in several books. However a detailed approach to system design and development including trades on subsystem choices and implications of the hardware selection for satellite and aircraft telecommunications is missing. Highlighting key design variations and critical differences between them this book distills decades worth of experience into a practical resource on hardware technologies.

Introduction to Optical Metrology

Rajpal S. Sirohi, 2025-09-26 This book describes both the theory and practice of optical techniques to measure various parameters encountered routinely in science and engineering. *Introduction to Optical Metrology Second Edition* examines the theory and practice of various measurement methodologies utilizing both the corpuscular and the wave nature of light. The book begins by introducing the subject of optics and then addresses the propagation of laser beams through free space and optical systems. It discusses interferometry, holography, speckle metrology, the moiré phenomenon, photoelasticity and microscopy. The remaining chapters describe techniques and methods of measurements of refractive index, thickness, radii of curvature, angle, velocity, pressure, length, optical testing and fiber optic based methods. Apart from these this edition includes a chapter on temperature measurement, sections on fringe unwrapping methods, testing of free form optics, shearography etc. Featuring new and updated exercise problems at the end of each chapter this edition provides an applied understanding of essential optical measurement concepts, techniques and procedures. The primary audience for this book is undergraduate and

graduate students who specialize in optics It will also be useful to researchers and professionals working on optical testing and fiber optic based and MEMS based measurements A solutions manual and figure slides are available for adopting professors *Optical Materials and Applications* Moriaki Wakaki,2017-12-19 The definition of optical material has expanded in recent years largely because of IT advances that have led to rapid growth in optoelectronics applications Helping to explain this evolution Optical Materials and Applications presents contributions from leading experts who explore the basic concepts of optical materials and the many typical applications in which they are used An invaluable reference for readers ranging from professionals to technical managers to graduate engineering students this book covers everything from traditional principles to more cutting edge topics It also details recent developmental trends with a focus on basic optical properties of material Key topics include Fundamental optical properties of solids Fundamental optical materials including thin films from both linear and nonlinear perspectives Use of bulk materials in the design of various modifications Application of optical thin films in artificial components Formation of artificial structures with sub wavelength dimensions Use of physical or chemical techniques to control lightwave phase One two and three dimensional structures used to control dispersion of materials for nanophotonics Progress of the optical waveguide which makes optical systems more compact and highly efficient This book carefully balances coverage of theory and application of typical optical materials for ultraviolet visible and infrared non linear optics solid state lasers optical waveguides optical thin films and nanophotonics It addresses both basic ideas and more advanced topics making it an equally invaluable resource for beginners and active researchers in this growing field

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Nonimaging Optics Roland Winston,Lun Jiang,Vladimir Oliker,2020-10-07 This book provides a comprehensive look at the

science methods designs and limitations of nonimaging optics It begins with an in depth discussion on thermodynamically efficient optical designs and how they improve the performance and cost effectiveness of solar concentrating and illumination systems It then moves into limits to concentration imaging devices and their limitations and the theory of furnaces and its applications to optical design Numerous design methods are discussed in detail followed by chapters of estimating the performance of a nonimaging design and pushing their limits of concentration Exercises and worked examples are included throughout

Entropy and Information Optics Francis T.S. Yu,2017-11-28 This book shows there is a profound connection between information and entropy Without this connection information would be more difficult to apply to science This book covers the connection and the application to modern optics and radar imaging It shows that there exists a profound relationship between Einstein s relativity theory and Schr inger s quantum mechanics by means of the uncertainty principle In due of the uncertainty relation this book shows that every bit of information takes time and energy to transfer to create and to observe The new edition contains 3 new chapters on radar imaging with optics science in the myth of information and time and the enigma of space

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Engineering Science and Mechanics Richard W. Longman,You-Li Chou,1983 *Proceedings of NCKU/AAS International Symposium on Engineering Sciences and Mechanics* You-Li Chou,1981 *Science & Technology in Japan* ,1999 Physics Briefs ,1990 Laser Communication with Constellation Satellites, UAVs, HAPs and Balloons Arun K. Majumdar,2022-06-24 This book presents posits a solution to the current limitations in global connectivity by introducing a global laser optical communication system using constellation satellites UAVs HAPs and Balloons The author outlines how this will help to satisfy the tremendous increasing demand for data exchange and information between end users worldwide including in remote locations The book provides both fundamentals and the advanced technology development in establishing worldwide communication and global connectivity using I All Optical technology and ii Laser Optical Communication Constellation Satellites of different types sizes and at different orbits UAVs HAPs High Altitude Platforms and Balloons The book discusses step by step methods to develop a satellite backbone in order to interconnect a number of ground nodes clustered within a few SD WAN software defined networking in a wide area network WAN around the world in order to provide a fully meshed communication network This book pertains to anyone in optical communications telecommunications and system engineers as well as technical managers in the aerospace industry and the graduate students and researchers in academia and research laboratory Proposed a solution to the limitations in global connectivity through a global laser optical communication system using constellation satellites UAVs HAPs and Balloons Provides both fundamentals and the advanced technology development in establishing global communication connectivity using optical technology and communication constellation satellites Includes in depth coverage of the basics of laser optical communication constellation satellites

Forthcoming Books Rose Arny,2004 Conference Proceedings ,1999 Optical Tracking Systems J. G. Muhlberger,Emmett D. Miller,1971 **Spaceflight Mechanics 2000** Kyle T. Alfriend,2000 Published for the American Astronautical Society AAS The August 1993 conference was hosted by the AAS and co sponsored by the American Institute of Aeronautics and Astronautics The proceedings cover topics including attitude determination and control TOPEX orbit determination and control orbit determination orbit transfer tethers mission analysis planetary Earth general trajectories navigation rendezvous attitude dynamics and control flexible body dynamics and control and orbit dynamics Additional papers from the conference are available on a microfiche supplement v 70 AAS Microfiche Series these are represented in the present volumes by an abstract with reference to the supplement No subject index Annotation copyright by Book News Inc Portland OR Proceedings ,1975 **International Aerospace Abstracts** ,1999 **Subject Guide to Books in Print** ,1993

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