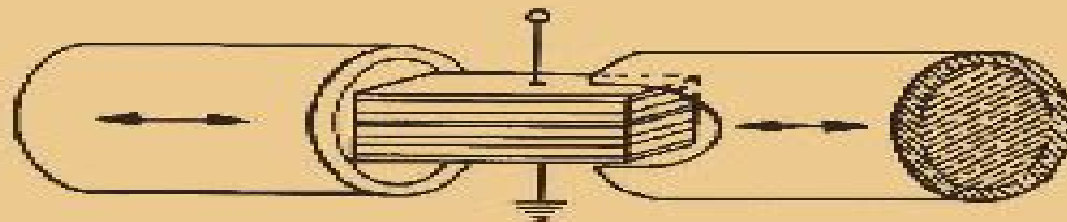


Robert G. Hunsperger

Integrated Optics

Theory and Technology

Fourth Edition



Springer

Integrated Opticstheory And Technology Theory And Technology 3rd Edition

Chunlei Guo,Subhash Chandra Singh



Integrated Optics Theory And Technology Theory And Technology 3rd Edition:

Integrated Optics: Theory and Technology Robert G. Hunsperger, 2013-06-05 Professor Hunsperger's *Integrated Optics* is one of the few texts that is comprehensive and thorough enough for use both as a classroom text (practice problems are included) and as a specialist's reference. The gratifying success of the first two editions and the continuing rapid development of the field necessitated the writing of this third edition. All chapters have been revised and updated, and a new chapter on quantum well devices has been added. As in the previous editions, detailed descriptions of the phenomena, devices, and technology used in optical integrated circuits and their relationship to fiber optics are presented. The trend of telecommunications toward the use of single mode systems operating at the longer wavelengths of 1.3 and 1.55 μm is explained and documented with illustrations of recently developed devices and systems. Broader coverage of GaInAsP devices and optical integrated circuits is provided, and the new growth techniques of molecular beam epitaxy (MBE) and metal organic chemical vapor deposition (MOCVD) are described. A discussion of the extensive development of hybrid optical integrated circuits in lithium niobate is also included. From the reviews: "I never had the opportunity of using Hunsperger as a text to teach from, but after reading the present third edition, I think it must be a pleasure to do so. It is a good book because of its precise language and its didactic organization with many clear tables; it is exhaustive in its details and rigorous in its background; it is well suited for a graduate level course." *Integrated Optics: Theory and Technology* R. G.

Hunsperger, 2013-11-11 This book is an introduction to the theory and technology of integrated optics for graduate students in electrical engineering and for practicing engineers and scientists who wish to improve their understanding of the principles and applications of this relatively new and rapidly growing field. Integrated Optics is the name given to a new generation of optoelectronic systems in which the familiar wires and cables are replaced by light waveguiding optical fibers and conventional integrated circuits are replaced by optical integrated circuits (OICs). In an OIC, the signal is carried by means of a beam of light rather than by an electrical current, and the various circuit elements are interconnected on the substrate wafer by optical waveguides. Some advantages of an integrated optic system are reduced weight, increased bandwidth, or multiplexing capability, resistance to electromagnetic interference, and low loss signal transmission. Because of the voluminous work that has been done in the field of integrated optics since its inception in the late 1960s, the areas of fiber optics and optical integrated circuits have usually been treated separately at conferences and in textbooks. In the author's opinion, this separation is unfortunate because the two areas are closely related. Nevertheless, it cannot be denied that it may be a practical necessity. [Handbook of Laser Technology and Applications](#) Chunlei Guo, Subhash Chandra

Singh, 2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser technologies, including the complete range of their technical applications. The first volume outlines the fundamental components of lasers, their properties, and working principles. Key Features: Offers a complete update of the original bestselling work, including many

brand new chapters Deepens the introduction to fundamentals from laser design and fabrication to host matrices for solid state lasers energy level diagrams hosting materials dopant energy levels and lasers based on nonlinear effects Covers new laser types including quantum cascade lasers silicon based lasers titanium sapphire lasers terahertz lasers bismuth doped fiber lasers and diode pumped alkali lasers Discusses the latest applications e g lasers in microscopy high speed imaging attosecond metrology 3D printing optical atomic clocks time resolved spectroscopy polarization and profile measurements pulse measurements and laser induced fluorescence detection Adds new sections on laser materials processing laser spectroscopy lasers in imaging lasers in environmental sciences and lasers in communications This handbook is the ideal companion for scientists engineers and students working with lasers including those in optics electrical engineering physics chemistry biomedicine and other relevant areas

MEMS: A Practical Guide of Design, Analysis, and Applications Jan Korvink, Oliver Paul, 2010-05-28 MEMS are rapidly moving from the research laboratory to the marketplace Many market studies indicate not only a tremendous market potential of MEMS devices year by year we see the actual market grow as the technology matures In fact these days many large silicon foundries have a MEMS group exploring this promising technology including such giants as INTEL and Motorola Yet MEMS are fundamentally different from microelectronics This means that companies with an established track record in these branches need to adapt their skills whereas companies that want to enter the miniaturization market need to establish an entirely new set of capabilities The same can be said of engineers with classical training who will also need to be educated toward their future professional activity in the MEMS field Here are some questions that a company or technologist may ask I have an existing product with miniaturization market potential Which technology should I adopt What are the manufacturing options available for miniaturization What are the qualitative differences How do we maintain a market lead for products based on MEMS Is there CAD support Can we outsource manufacturing Which skills in our current capability need only adaptation What skills need to be added Professors Jan Korvink and Oliver Paul have set out to answer these questions in a form that addresses the needs of companies commercial practitioners and technologists

Fundamentals of Semiconductor Lasers Takahiro Numai, 2006-05-10 Fundamentals of Semiconductor Lasers explains the physics and fundamental characteristics of semiconductor lasers with regard to systems applications The detailed and comprehensive presentation is unique in that it encourages the reader to consider different semiconductor lasers from different angles Emphasis is placed on recognizing common concepts such as operating principles and structure and solving problems based on individual situations The treatment is enhanced by an historical account of advances in semiconductor lasers over the years discussing both those ideas that have persisted over the years and those that have faded out The first four chapters cover the basics of semiconductors including band structures optical transitions optical waveguides and optical resonators The remaining chapters discuss operating principles and basic characteristics of semiconductor lasers and advanced topics including dynamic single mode lasers quantum well lasers and control of

spontaneous emission The reader need only be familiar with undergraduate level electromagnetism and quantum mechanics After reading this book the student will be able to think critically about semiconductor lasers and be able to read and understand journal papers in the field This book will be essential to any advanced undergraduate or graduate student of semiconductor lasers and any professional physicist or engineer looking for a good overview of the subject

Integrated Optics, Microstructures, and Sensors Massood Tabib-Azar, 2013-11-27 Controlling the mechanical electrical magnetic and optical properties of materials by advanced fabrication methods Le Molecular Beam Epitaxy and Metal Organic Chemical Vapor Deposition has become the new paradigm in our research era Sensors being the most vital part of the electronic data processing and decision making machines stand to gain the most from engineering of the properties of materials Microfabrication technology has already contributed significantly to the batch fabrication of micro sensors with higher over all qualities compared to their counterparts that are fabricated using other methods Batch fabrication of micro sensors i results in more uniform properties of co fabricated devices ii nearly eliminates the need for characterization of individual sensors and iii eliminates a need for laborious alignment procedures A less obvious benefit of using microfabrication methods is the possibility of precise control over the dimensions of the sensor This control enables engineering of some of the properties of the material which affect the sensor s operation There are many examples of this in the literature Optical sensors are known to have superior properties over their counterparts that use other i e electrostatic and magnetic means of detection To name a few these advantages are i immunity to electromagnetic interferences ii higher sensitivities compared to the other types of sensors iii simplicity of operation principles and iv simplicity of overall construction

Engineering Optics Keigo Iizuka, 2013-04-17 The first edition of this textbook was published only last year and now the publisher has decided to issue a paperback edition This is intended to make the text more affordable to everyone who would like to broaden their knowledge of modem problems in optics The aim of this book is to provide a basic understanding of the impor tant features of the various topics treated A detailed study of all the sub jects comprising the field of engineering optics would fill several volumes This book could perhaps be likened to a soup it is easy to swallow but sooner or later heartier sustenance is needed It is my hope that this book will stimulate your appetite and prepare you for the banquet that could be yours I would like to take this opportunity to thank those readers especially Mr Branislav Petrovic who sent me appreciative letters and helpful com ments These have encouraged me to introduce a few minor changes and improvements in this edition

Optics and Lasers Matt Young, 2013-06-29 In this newest edition of Optics and Lasers I have added a substantial number of problems and moved most of the older ones to the end of the book There are now about one hundred problems which I hope will make the book more useful in the classroom As before some of the problems derive an espe cially important or useful result these I have left integrated within the body of the book In such cases I state the result and often give it an equation number and a citation in the index Teachers who adopt the book may obtain solutions to the problems by asking me for them on letterhead

stationery In addition I have rewritten over a dozen paragraphs to improve their clarity or precision and further corrected minor errors of punctuation and taken care of other such small details The field of optics has been changing greatly for almost two dozen years Partly because of the applied or engineering nature of much of modern optics there has been a need for a practical text that surveys the entire field Such a book should not be a classical optics text but rather it should be strong on principles applications and instrumentation on lasers holography and coherent light and on optical fiber waveguides On the other hand it should concern itself relatively little with such admittedly interesting phenomena as the formation of the rainbow or the precise determination of the speed of light

Optical Waveguide Sensing and Imaging Wojtek J. Bock, Israel Gannot, Stoyan Tanev, 2007-12-14 The book explores various aspects of existing and emerging fiber and waveguide optics sensing and imaging technologies including recent advances in nanobiophotonics The focus is both on fundamental and applied research as well as on applications in civil engineering biomedical sciences environment security and defence The book aims to provide a reference of state of the art overviews covering a variety of topics on the interface of engineering and biomedical sciences

X-Ray Microscopy III Alan G. Michette, Graeme R. Morrison, Christopher J. Buckley, 2013-06-05 The growth of interest and research activity in X ray microscopy is reflected in the increasing size and scope of a related series of international conferences the latest of which XRM90 was held at King's College London 3-7 September 1990 with over 130 delegates Previous conferences in Gottingen and Brookhaven resulted in books in the Springer Series in Optical Sciences and this volume the proceedings of XRM90 maintains this tradition Because of the large number of papers their lengths were strictly limited and while most papers can be directly identified with conference presentations in a few cases those on similar topics by the same authors have been combined into a longer paper to allow better use of the space The book is divided into six parts with Parts I-VI covering the major areas of interest at the conference In Part I are two overviews Ron Burge presented the opening paper of the conference while the closing summary contribution by Janos Kirz is included here as a comprehensive introduction to the remainder of the book Part II covers developments in X ray sources and optics The high average brightnesses of synchrotron radiation sources have made many applications possible while the more convenient laboratory based plasma sources offer much promise for the future Several contributions report significant advances in X ray optics which must clearly continue fully to exploit the latest sources

Laser Crystals Alexander A. Kaminskii, 2013-06-29 It was a greatest pleasure for me to learn that Springer Verlag wished to produce a second edition of my book In this connection Dr H Lotsch asked me to send him a list of misprints mistakes and inaccuracies that had been noticed in the first edition and to make corresponding corrections without disturbing the layout or the typography too much I accepted this opportunity with alacrity and moreover found some free places in the text where I was able to insert some concise up to date information about new lasing compounds and stimulated emission channels It was also possible to increase the number of reference citations The reader of the second edition hence has access to more complete data on insulating laser crystals

However sections on laser crystal physics have not been updated because a satisfactory description of the progress made in the last ten years in this field would have required the sections to be extended enormously or even a new book to be written

Moscow July 1989 ALEXANDER A KAMINSKII Preface to the First Edition The greatest reward for an author is the feeling of satisfaction he gets when it becomes clear to him that readers find his work useful After my book appeared in the USSR in 1975 I received many letters from fellow physicists including colleagues from Western European countries and the USA

Frontiers in Surface Nanophotonics David L. Andrews, Zeno Gaburro, 2007-08-23 This book explores the role of surface effects in optical phenomena in nanoscience from two different perspectives When systems are reduced in volume the ratio of surface versus volume increases At the level of single nanostructures this translates into an enhanced role of interfacial chemistry and thermodynamics At the level of systems of nanostructures it translates into larger density on interfaces which in turn leads to such intriguing collective effects as plasmonics or multiple reflection and refraction phenomena The book highlights both perspectives presenting sample applications Without claiming to be exhaustive the book aims to stimulate readers in this potentially rewarding field

Solid-State Laser Engineering Walter Koechner, 2013-11-11 Solid State Laser Engineering is written from an industrial perspective and discusses in detail the characteristics design construction and practical problems of solid state lasers Emphasis is placed on engineering and practical considerations with a phenomenological treatment using models being preferred to abstract mathematical derivations This new edition has been updated and revised to include important developments concepts and technologies that have emerged since the publication of the first edition

Single-Mode Fibers Ernst-Georg Neumann, 2013-04-17 Single mode fibers are the most advanced means of transmitting information since they provide extremely low attenuation and very high bandwidths At present long distance communication by single mode fibers is cheaper than by conventional copper cables and in the future single mode fibers will also be used in the subscriber loop Since single mode fibers have many applications a variety of people need to understand this modern transmission medium However waveguiding in single mode fibers is much more difficult to understand than waveguiding in copper lines A single mode fiber is a dielectric waveguide operated at optical wave lengths Since 1961 I have been involved in experimental and theoretical research on dielectric rod waveguides in the microwave region From the experiments I learned much about the properties of a wave guided by a dielectric rod or a glass fiber especially about its behavior at waveguide discontinuities like bends gaps or the waveguide end Since 1972 my co workers and I have also been investigating dielectric waveguides at optical frequencies and since 1973 I have lectured on Optical Communications These activities have shown that there is a need for a tutorial introduction to the new technical field of single mode fibers In this book the physical fundamentals are emphasized and the mathematics is limited to the absolutely necessary subjects Besides presenting a physical explanation of waveguiding in single mode fibers it is also the aim of this book to give an overview of the knowledge accumulated in this field

Silver-Halide Recording

Materials Hans I. Bjelkhagen, 2013-04-17 Silver Halide Recording Materials gives a detailed analysis of the theory the characteristics the manufacturing and the processing methods of silver halide materials used for the recording of holograms Emphasis is placed on the selection of suitable silver halide materials for conventional as well as special holographic applications A detailed account of current developing and bleaching methods used in the production of silver halide holograms is given The author also supplies a large number of recipes for different types of processing baths The text is complemented by a comprehensive list of references which will facilitate any further study The monograph will be suitable for courses in holography where the student possesses some background knowledge as regards the general holographic process and the holographic technique *Photorefractive Crystals in Coherent Optical Systems* Mikhail P. Petrov, Sergei I. Stepanov, Anatoly V. Khomenko, 2013-11-11 This book describes the processes of optical information recording in photorefractive crystals and applications of these materials in phase conjugating devices holographic interferometry optical computers and sensors It is in essence an extensive introduction to this new and rapidly developing area of quantum electronics It presents physical concepts fundamentals of theory and important experimental data A rigorous treatment of basic phenomena is accompanied by a quantitative analysis which makes the book interesting to experts and accessible for newcomers to the field Of particular interest to researchers is an extensive summary of basic physical and holographic parameters of all presently known photorefractive crystals and structures and also a detailed critical analysis of their applications **Handbook of Nonlinear Optical Crystals** Valentin G. Dmitriev, Gagik G. Gurzadyan, David N. Nikogosyan, 2013-11-11 Since the invention of the first laser 30 years ago the frequency conversion of laser radiation in nonlinear optical crystals has become an important technique widely used in quantum electronics and laser physics for solving various scientific and engineering problems The fundamental physics of three wave light interactions in nonlinear optical crystals is now largely understood This has enabled the production of the various harmonic generators sum and difference frequency generators and parametric oscillators based on nonlinear crystals that are now commercially available At the same time scientists continue an active search for novel high efficiency optical materials Therefore in our opinion there is a great need for a handbook of nonlinear optical crystals intended for specialists and practitioners with an engineering background This book contains a complete description of the properties and applications of all nonlinear crystals reported in the literature up to the beginning of 1990 In addition it contains the most important equations for calculating the main parameters such as phase matching direction effective non linearity and conversion efficiency of nonlinear frequency converters *Holographic Interferometry in Experimental Mechanics* Yuri I. Ostrovsky, Valeri P. Shchepinov, Victor V. Yakovlev, 2013-06-29 This monograph deals with diverse applications of holographic interferometry in experimental solid mechanics Holographic interferometry has experienced a development of twenty years It has enjoyed success and suffered some disappointments mainly due to early overestimation of its potential At present development of holographic

interferometry is progressing primarily as a technique for quantitative measurements. This is what motivated us to write this book to analyze the quantitative methods of holographic interferometry. The fringe patterns obtained in holographic interferometry are graphically descriptive. In the general case, however, because they contain information on the total vectors of displacement for points on the surface of a stressed body, the interpretation of these interferograms is much more complicated than in typical conventional interferometry. In addition, the high sensitivity of the method imposes new requirements on the loading of the objects under study. New approaches to designing loading fixtures are needed in many cases to ensure the desired loading conditions. The wealth of information obtained in holographic interferometry necessitates the use of modern computational mathematics. Therefore, practical implementation of the various methods of holographic interferometry must overcome substantial difficulties requiring adequate knowledge in diverse areas of science such as coherent optics, laser technology, mechanics, and applied mathematics. Experimental methods play a significant role in solid mechanics.

X-Ray Microscopy II David Sayre, Malcolm Howells, Janos Kirz, Harvey Rarback, 2013-06-05. This volume is based on papers presented at the International Symposium on X-Ray Microscopy held at Brookhaven National Laboratory, Upton, NY, August 31–September 4, 1987. Previous recent symposia on the subject were held in New York in 1979, Göttingen in 1983, and Taipei in 1986. Developments in x-ray microscopy continue at a rapid pace with important advances in all major areas: x-ray sources, optics, and components; microscopes and imaging systems. Taken as a whole, the work presented here emphasizes three major directions: a) improvements in the capability and image quality of x-ray microscopy expressed principally in systems attached to large, high-brightness x-ray sources; b) greater access to x-ray microscopy expressed chiefly in systems employing small, often pulsed x-ray sources; and c) increased rate of exploration of applications of x-ray microscopy. The number of papers presented at the symposium has roughly doubled compared with that of its predecessors. While we are delighted at this growth as a manifestation of vitality and rapid growth of the field, we did have to ask the authors to limit the length of their papers and to submit them in camera-ready form. We thank the authors for their contributions and for their efforts in adhering to the guidelines on manuscript preparation.

Foundations for Guided-Wave Optics Chin-Lin Chen, 2006-09-11. A classroom-tested introduction to integrated and fiber optics. This text offers an in-depth treatment of integrated and fiber optics, providing graduate students, engineers, and scientists with a solid foundation of the principles, capabilities, uses, and limitations of guided-wave optic devices and systems. In addition to the transmission properties of dielectric waveguides and optical fibers, this book covers the principles of directional couplers, guided-wave gratings, arrayed-waveguide gratings, and fiber-optic polarization components. The material is fully classroom-tested and carefully structured to help readers grasp concepts quickly and apply their knowledge to solving problems. Following an overview including important nomenclature and notations, the text investigates three major topics: Integrated optics, Fiber optics, Pulse evolution, and broadening in optical waveguides. Each chapter starts with basic principles and gradually builds to more advanced

concepts and applications Compelling reasons for including each topic are given detailed explanations of each concept are provided and steps for each derivation are carefully set forth Readers learn how to solve complex problems using physical concepts and simplified mathematics Illustrations throughout the text aid in understanding key concepts while problems at the end of each chapter test the readers grasp of the material The author has designed the text for upper level undergraduates graduate students in physics and electrical and computer engineering and scientists Each chapter is self contained enabling instructors to choose a subset of topics to match their particular course needs Researchers and practitioners can also use the text as a self study guide to gain a better understanding of photonic and fiber optic devices and systems

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