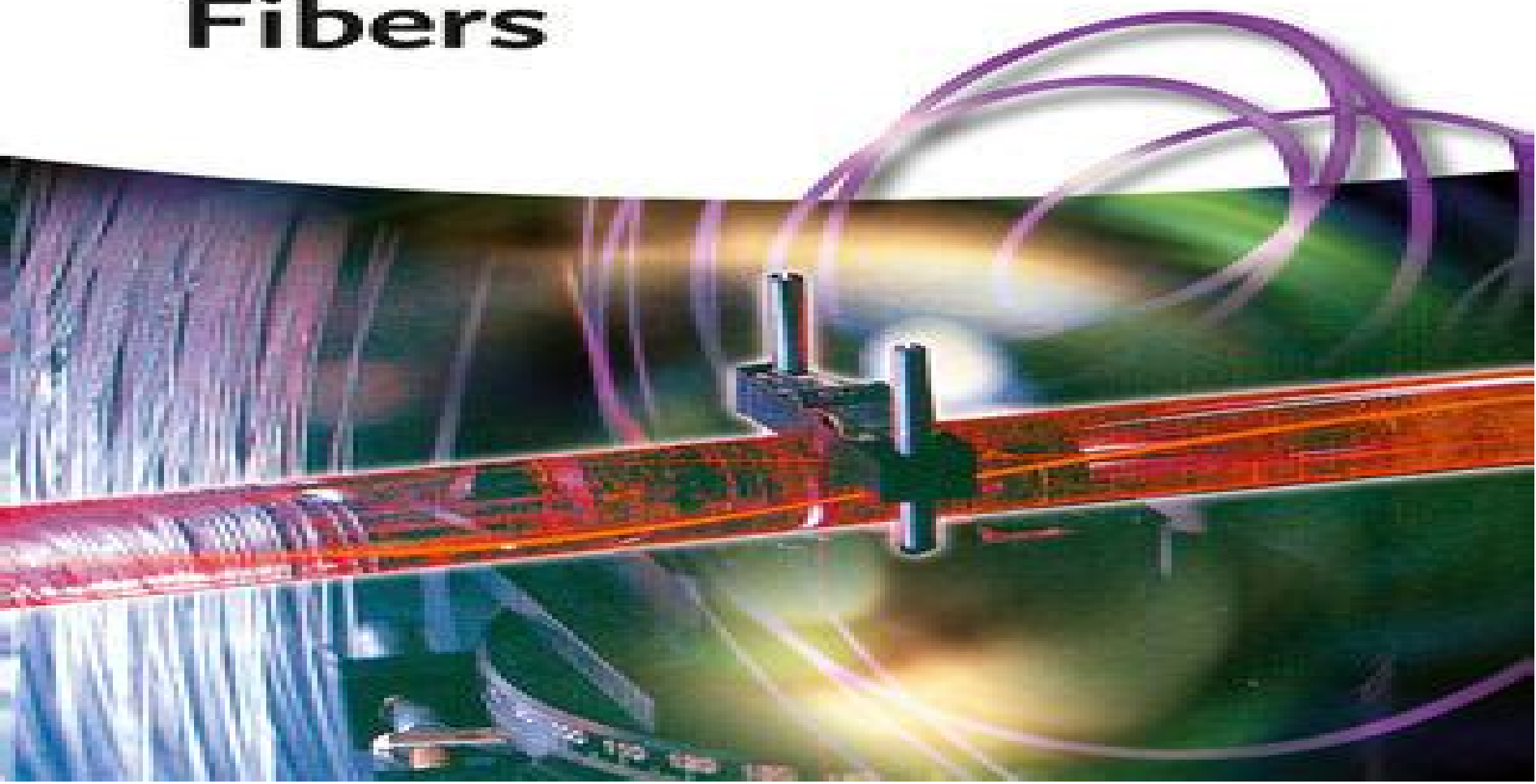


Yasuhiro Koike

Fundamentals of Plastic Optical Fibers



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Rajib Biswas, Nirmal Mazumder



Fundamentals Of Plastic Optical Fibers Fundamentals Of Plastic Optical Fibers:

Fundamentals of Plastic Optical Fibers Yasuhiro Koike, 2014-12-22 Polymer photonics is an interdisciplinary field which demands excellence both in optics photonics and materials science polymer However these disciplines have developed independently and therefore the demand for a comprehensive work featuring the fundamentals of photonic polymers is greater than ever This volume focuses on Polymer Optical Fiber and their applications The first part of the book introduces typical optical fibers according to their classifications of material propagating mode and structure Optical properties the high bandwidth POF and transmission loss are discussed followed by an outline on the propagating mode characteristics and how they affect the performances of the fiber The second part of the book reviews conventional materials of POFs and gives an overview on fabrication methods This is followed by a survey of characterization methods Based on the characteristics of optical communication systems the last chapter will concentrate on the many advantages of POF in link and network design Written by a top expert in the field this is an invaluable resource for semiconductor physicists materials scientists polymer chemists electrical engineers and those working in the semiconductor industry *Plastic Optical Fiber Sensors* Marcelo M. Werneck, Regina Célia S. B. Allil, 2019-12-12 Plastic Optical Fiber Sensors cover the fundamentals and applications of a new class of fiber sensors With contributions from leading academics in the area this book covers the theory of plastic optical fiber sensors or POFs as well as applications in oil gas biotechnology and energy fields Using multiple examples the editors showcase the advantageous characteristics of POFs such as ease of handling large diameter inexpensive peripheral components and simple termination tools By doing so the editors assert that there has been a proliferation of the use of POFs in new consumer products The book also highlights uses for building various products such as a POF sensor for oil trucker valve monitoring a monitoring system for high voltage substation switch an oil leaking sensor for offshore platforms and a solar tracker for illumination Including over 300 black and white images this book would be highly beneficial for professionals in manufacturing as well as academics in universities particularly those who use optical fiber sensors on a regular basis *26th International Conference on Plastic Optical Fibres* Rogerio Nogueira, Ana Maria Rocha, 2017-09-13 26th International Conference on Plastic Optical Fibres POF 2017 September 13 to 15 2017 Aveiro Portugal **Plastic Optical Fiber Design Manual - Handbook and Buyers Guide**, 1993 **Polymer Optical Fibres** Christian-Alexander Bunge, Markus Beckers, Thomas Gries, 2016-08-25 Polymer Optical Fibres Fibre Types Materials Fabrication Characterization and Applications explores polymer optical fibers specifically their materials fabrication characterization measurement techniques and applications Optical effects including light propagation degrading effects of attenuation scattering and dispersion are explained Other important parameters like mechanical strength operating temperatures and processability are also described Polymer optical fibers POF have a number of advantages over glass fibers such as low cost flexibility low weight electromagnetic immunity good bandwidth simple installation and mechanical stability Provides systematic and

comprehensive coverage of materials fabrication properties measurement techniques and applications of POF Focuses on industry needs in communication illumination and sensors the automotive industry and medical and biotechnology Features input from leading experts in POF technology with experience spanning optoelectronics polymer and textiles Explains optical effects including light propagation degrading effects of attenuation scattering and dispersion *Plastic Optical Fiber Sensors* Marcelo M. Werneck, Regina Célia S. B. Allil, 2019-11-25 Plastic Optical Fiber Sensors cover the fundamentals and applications of a new class of fiber sensors With contributions from leading academics in the area this book covers the theory of plastic optical fiber sensors or POFs as well as applications in oil gas biotechnology and energy fields Using multiple examples the editors showcase the advantageous characteristics of POFs such as ease of handling large diameter inexpensive peripheral components and simple termination tools By doing so the editors assert that there has been a proliferation of the use of POFs in new consumer products The book also highlights uses for building various products such as a POF sensor for oil trucker valve monitoring a monitoring system for high voltage substation switch an oil leaking sensor for offshore platforms and a solar tracker for illumination Including over 300 black and white images this book would be highly beneficial for professionals in manufacturing as well as academics in universities particularly those who use optical fiber sensors on a regular basis Handbook of Fibrous Materials, 2 Volumes Jinlian Hu, Bipin Kumar, Jing Lu, 2020-06-22 Edited by a leading expert in the field with contributions from experienced researchers in fibers and textiles this handbook reviews the current state of fibrous materials and provides a broad overview of their use in research and development Volume One focuses on the classes of fibers their production and characterization while the second volume concentrates on their applications including emerging ones in the areas of energy environmental science and healthcare Unparalleled knowledge of high relevance to academia and industry **Optical Fiber Applications** Guillermo Huerta-Cuellar, Roghayeh Imani, 2020-04-08 With the invention of the laser it was possible to think about a fast and efficient way to make the information transmission thus originating the first ideas of transmission through wave guides This led to the invention of the optical fibers for which scientific technological research has been constantly developed in order to improve the efficiency of information transmission for different applications Then various techniques and materials used for the manufacture of optical fibers have been developed which have been improved over the years obtaining high efficiency in the transmission of information as well as different types of optical fiber applications This book intends to provide the reader a review of some different fiber optic applications as well as some ideas about the future of growing in this important technological area **Plastic Optical Fibers** Andreas Weinert, 1999 In recent years there has been a meteoric rise in the use of plastic fiber optic cables e g for data transmission on short to medium length transmission paths The reason for this is that plastic fiber optic cables can be connected to the relevant transmission components at low cost and using simple tools This book offers an introduction to the physical principles of the new technology and describes the materials and manufacturing process of plastic fibers as well as

the construction of plastic fiber optic cables It describes various types of cable as well as transmitting and receiving components in the transmission path and provides useful tips on the processing and installation of plastic fiber optic cable Reference is also made to important national and international standards This book is intended for anyone involved in the development planning or installation of plastic fiber optic cable systems The fundamental structure of the book also makes it suitable for university lecturers and students

Fiber-Optic Communication Systems Govind P. Agrawal, 2021-06-29
Discover the latest developments in fiber optic communications with the newest edition of this leading textbook In the newly revised fifth edition of Fiber Optic Communication Systems accomplished researcher and author Dr Govind P Agrawal delivers brand new updates and developments in the science of fiber optics communications The book contains substantial additions covering the topics of coherence detection space division multiplexing and more advanced subjects You ll learn about topics like fiber s losses dispersion and nonlinearities as well as coherent lightwave systems The latter subject has undergone major changes due to the extensive development of digital coherent systems over the last decade Space division multiplexing is covered as well including multimode and multicore fibers developed in just the last ten years Finally the book concludes with a chapter on brand new developments in the field that are still at the development stage and likely to become highly relevant for practitioners and researchers in the coming years Readers will also benefit from the inclusion of A thorough introduction to the fundamentals of fiber optic communication systems An exploration of the management of fiber optic communication losses dispersion and nonlinearities A practical discussion of coherent lightwave systems including coherent transmitters and receivers as well as noise and bit error rate sensitivity degradation mechanisms and the impact of nonlinear effects A concise treatment of space division multiplexing including multicore and multimode fibers multicore lightwave systems and multimode lightwave systems Analyses of advanced topics including pulse shaping for higher spectral efficiency Kramers Kronig receivers nonlinear Fourier transform wavelength conversion and optical regeneration Perfect for graduate students professors scientists and professional engineers working or studying in the area of telecommunications technology Fiber Optic Communication Systems is an essential update to the leading reference in the area of fiber optic communications

Physics and Engineering of Graded-Index Media Govind P. Agrawal, 2023-08-10 This book brings together research developments in the field of graded index media and is suitable for graduate students and researchers

Optical Spectroscopy And Imaging For Cancer Diagnostics: Fundamentals, Progress, And Challenges Nouredine Melikechi, 2023-01-06 This is an interdisciplinary book that presents the applications of novel laser spectroscopy and imaging techniques for the detection of cancers recently developed by some of the world s most renown researchers The book consists of three parts and a total of 16 chapters Each chapter is written by leading experts who are actively seeking to develop novel spectroscopic and analytical methods for cancer detection and diagnosis In Part I the authors present fundamentals on optics atoms and molecules biophysics cancer and machine learning These chapters are intended for those

who are not experts in the field but wish to learn about fundamentals aspects of some of the key topics that are addressed in this book Particular attention has been given to providing key references for those who wish to go further into the fundamental aspects of atoms and molecules light matter interaction optical instrumentation machine learning and cancer In Part II the authors present key applications of various laser spectroscopic methods in cancer diagnosis They have provided recent progress in cancer diagnostics obtained by combining laser spectroscopy and machine learning for the analysis of the spectra acquired from biomedical tissues and biofluids In Part III the authors present chapters that discuss key developments in the applications of various laser imaging techniques for cancer detection This is one of the few books that addresses cancer detection and diagnosis using laser spectroscopic and imaging tools with an eye on providing the reader the scientific tools including machine learning ones

Polymer Science: A Comprehensive Reference ,2012-12-05 The progress in polymer science is revealed in the chapters of Polymer Science A Comprehensive Reference Ten Volume Set In Volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films Volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods Volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins ROMP as well as to various less common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces

The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner *Plastic Optical Fibers and Applications* IGIC, Inc. Staff, John Bliss, 1994

Recent Advances in Plasmonic Probes Rajib Biswas, Nirmal Mazumder, 2022-06-21 This book gives a comprehensive overview of recent advancements in both theory and practical implementation of plasmonic probes Encompassing multiple disciplines the field of plasmonics provides a versatile and flexible platform for nanoscale sensing and imaging Despite being a relatively young field plasmonic probes have come a long way with applications in chemical biological civil and architectural fields as well as enabling many analytical schemes such as immunoassay biomarkers environmental indexing and water quality sensing to name but a few The objective of the book is to present in depth analysis of the theory and applications of novel probes based on plasmonics with a broad selection of specially invited chapters on the development fabrication functionalization and implementation of plasmonic probes as well as their integration with current technologies and future outlook This book is designed to cater to the needs of novice seasoned researchers and practitioners in academia and industry as well as medical and environmental fields

LED Lighting Malvin Carl Teich, 2025-04-14 LED Lighting is a self contained and introductory level book featuring a blend of theory and applications that thoroughly covers this important interdisciplinary area Building on the underlying fields of optics photonics and vision science it comprises four parts PART I is devoted to fundamentals The behavior of light is described in terms of rays waves and photons Each of these approaches is best suited to a particular set of applications The properties of blackbody radiation thermal light and incandescent light are derived and explained The essentials of semiconductor physics are set forth including the operation of junctions and heterojunctions quantum wells and quantum dots and organic and perovskite semiconductors PART II deals with the generation of light in semiconductors and details the operation and properties of III V semiconductor devices MQWLEDs microLEDs quantum dot devices QLEDs WQLEDs organic semiconductor devices OLEDs SMOLEDs PLEDs WOLEDs and perovskite devices PeLEDs PPeLEDs QPeLEDs PeWLEDs PART III focuses on vision and the perception of color as well as on colorimetry It delineates radiometric and photometric quantities as well as various measures of luminous efficacy and efficiency It also elucidates the significance of commonly used LED lighting metrics such as the color rendering index CRI color temperature CT correlated color temperature CCT and chromaticity diagram PART IV is devoted to LED lighting focusing on its history and salutary features and on how this

modern form of illumination is deployed It describes the principal components used in LED lighting including phosphor conversion LEDs PCLEDs for generating cool and warm white light chip on board COB devices color mixing LEDs LED filaments retrofit LED lamps hybrid devices LED luminaires and OLED light panels It concludes with a discussion of smart and connected lighting that reviews plant centric lighting and highlights the roles of gamma and circadian brain rhythms in human centric lighting Finally the performance metrics for traditional and LED light sources are summarized Each chapter contains practical examples highlighted equations color coded figures and an extensive bibliography

Optoelectronic Circuits in Nanometer CMOS Technology Mohamed Atef, Horst Zimmermann, 2016-03-04 This book describes the newest implementations of integrated photodiodes fabricated in nanometer standard CMOS technologies It also includes the required fundamentals the state of the art and the design of high performance laser drivers transimpedance amplifiers equalizers and limiting amplifiers fabricated in nanometer CMOS technologies This book shows the newest results for the performance of integrated optical receivers laser drivers modulator drivers and optical sensors in nanometer standard CMOS technologies Nanometer CMOS technologies rapidly advanced enabling the implementation of integrated optical receivers for high data rates of several Giga bits per second and of high pixel count optical imagers and sensors In particular low cost silicon CMOS optoelectronic integrated circuits became very attractive because they can be extensively applied to short distance optical communications such as local area network chip to chip and board to board interconnects as well as to imaging and medical sensors

Fluorescent polymers for sensing and imaging Seiichi Uchiyama, 2020-12-29 Nowadays all scientists recognize that fluorescent probes play important roles in wide research areas from chemistry to biology By combining this fact with specific functional benefits from synthetic polymers fluorescent polymeric probes are occasionally superior to small organic and inorganic fluorescent or luminescent probes in terms of sensitivity robustness and multiple functionality The targets of fluorescent polymeric probes have extended from chemical species to physical parameter This special issue is a platform for researches to develop a novel fluorescent polymeric probe and to establish a new analytical method using a conventional fluorescent polymeric probe Related researches e g fluorometric investigation of functional polymers are also included

Experimental Mechanics Emmanuel E. Gdoutos, 2021-11-15 The book presents in a clear simple straightforward novel and unified manner the most used methods of experimental mechanics of solids for the determination of displacements strains and stresses Emphasis is given on the principles of operation of the various methods not in their applications to engineering problems The book is divided into sixteen chapters which include strain gages basic optics geometric and interferometric moir optical methods photoelasticity interferometry holography caustics speckle methods digital image correlation thermoelastic stress analysis indentation optical fibers nondestructive testing and residual stresses The book will be used not only as a learning tool but as a basis on which the researcher the engineer the experimentalist the student can develop their new own ideas to promote research in experimental mechanics of solids

Sensor Technologies for Civil Infrastructures, Volume 1 Jerome P. Lynch, Hoon Sohn, Ming L. Wang, 2014-04-26

Sensors are used for civil infrastructure performance assessment and health monitoring and have evolved significantly through developments in materials and methodologies. Sensor Technologies for Civil Infrastructure Volume I provides an overview of sensor hardware and its use in data collection. The first chapters provide an introduction to sensing for structural performance assessment and health monitoring and an overview of commonly used sensors and their data acquisition systems. Further chapters address different types of sensor including piezoelectric transducers, fiber optic sensors, acoustic emission sensors, and electromagnetic sensors, and the use of these sensors for assessing and monitoring civil infrastructures. Developments in technologies applied to civil infrastructure performance assessment are also discussed, including radar technology, micro electro mechanical systems (MEMS), and nanotechnology. Sensor Technologies for Civil Infrastructure provides a standard reference for structural and civil engineers, electronics engineers, and academics with an interest in the field. Describes sensing hardware and data collection covering a variety of sensors. Examines fiber optic systems, acoustic emission, piezoelectric sensors, electromagnetic sensors, ultrasonic methods, and radar and millimeter wave technology. Covers strain gauges, micro electro mechanical systems (MEMS), multifunctional materials, and nanotechnology for sensing and vision based sensing and lasers.

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