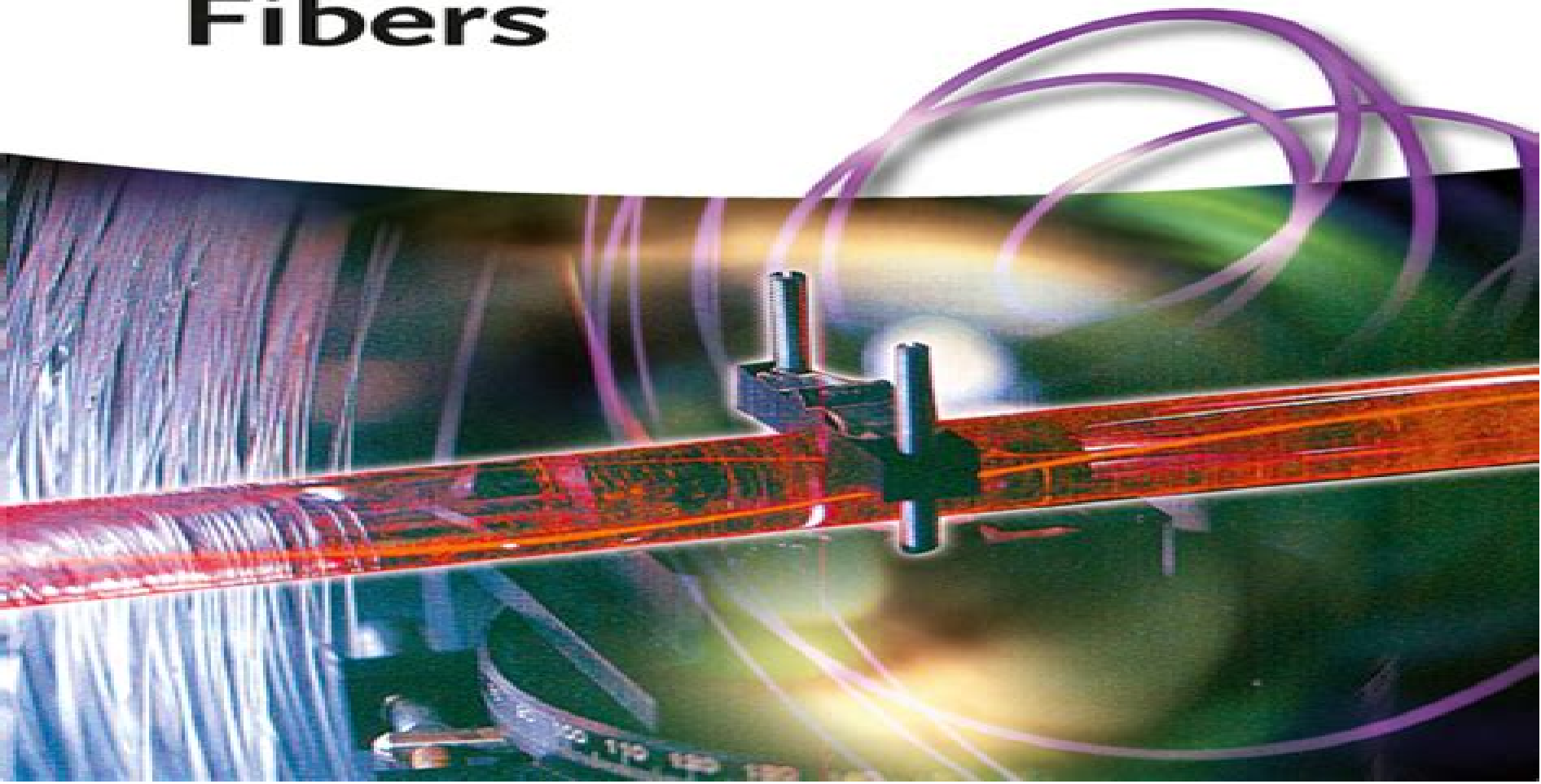


Yasuhiro Koike

Fundamentals of Plastic Optical Fibers



Fundamentals Of Plastic Optical Fibers

Yasuhiro Koike



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Fundamentals of Plastic Optical Fibers Yasuhiro Koike, 2015-02-16 Hervorragender Überblick über die Verwendung von Kunststoffen in der Photonik speziell in der Datenübertragung. Der Leser erfährt wie die photonischen Eigenschaften von Polymeren mit ihrer Struktur zusammenhängen und wie POF für den Einsatz in optischen Netzwerken optimiert werden können. Im ersten Teil des Buches werden typische Fasern in Hinblick auf Materialklassen und Ausbreitungsmoden vorgestellt. Optische Eigenschaften wie Bandbreite und Leitungsverluste werden diskutiert ebenso Ausbreitungscharakteristika und deren Einfluss auf die Leistungsmerkmale der Fasern. Im zweiten Teil werden unterschiedliche Methoden der Herstellung und Charakterisierung präsentiert. Mit Bezug zu den technischen Anforderungen der optischen Kommunikation konzentriert sich das letzte Kapitel auf die Vorteile und Einsatzmöglichkeiten von polymeren optischen Fasern.

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 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.

Fundamentals of Optical Fiber Sensors Zujie Fang, Ken Chin, Ronghui Qu, Haiwen Cai, 2012-08-10 This book describes the latest development in optical fiber devices and their applications to sensor technology. Optical fiber sensors are an important application of the

optical fiber have experienced fast development and attracted wide attentions in basic science as well as in practical applications Sensing is often likened to human sense organs Optical fiber can not only transport information acquired by sensors at high speed and large volume but also can play the roles of sensing element itself Compared with electric and other types of sensors fiber sensor technology has unique merits It has advantages over conventional bulky optic sensors such as combination of sensing and signal transportation smaller size and possibility of building distributed systems Fiber sensor technology has been used in various areas of industry transportation communication security and defense as well as daily life Its importance has been growing with the advancement of the technology and the expansion of the scope of its application a growth this book fully describes *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 *Fundamentals of Photonics* Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04

Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated **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 *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 **Optical Fiber**

Communications Principles and Practice Edwin Conway, 2019-11-05 The field of fibre optics communications has exploded over the past two decades Fibre is an integral part of modern day communication infrastructure and can be found along roads in buildings hospitals and machinery Fibre optic communication has revolutionised the telecommunications industry It has also made its presence widely felt within the data networking community as well Using fibre optic cable optical communications have enabled telecommunications links to be made over much greater distances and with much lower levels of loss in the transmission medium and possibly most important of all fiber optical communications has enabled much higher data rates to be accommodated Optical fibers can be used to transmit light and thus information over long distances Fiber based systems have largely replaced radio transmitter systems for long haul optical data transmission They are widely used for telephony but also for Internet traffic long high speed local area networks LANs cable TV CATV and increasingly also for shorter distances within buildings In most cases silica fibers are used except for very short distances where plastic optical fibers can be advantageous The basic components are light signal transmitter the optical fiber and the photo detecting receiver The additional elements such as fiber and cable splicers and connectors regenerators beam splitters and optical amplifiers are employed to improve the performance of the communication system The book offers a completely up to date accessible and in depth introduction to the principles and applications of optical fiber communications It describes

the recent developments in optical fiber communication materials devices components and systems *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 *Fiber Optic Essentials* Casimer DeCusatis,Carolyn J. Sher DeCusatis,2010-07-21 This book is a MUST for everyone in and around the optics community Fiber Optic Essentials provides professionals and students new to the field of fiber optics with a high level knowledge of principles theories and applications This primer can also be used as a succinct overview of optics for those with some engineering and physics background Individuals involved with optics in non traditional capacities such as in marketing and legal departments will find this volume introduces basic concepts completely in an easy to read format Casimer and Carolyn DeCusatis have provided a concise resource with compact chapters and minimal equations conveying this complex topic in a straightforward and clear cut style Included in this book are chapters on fibers cables connectors transmitters modulators noise and optical link design Concluding this reference are three indispensable appendices covering extensive definitions acronyms including initials and commonly used slang measurement conversions and physical constants This author team has produced a book that has truly shed light on this difficult subject Comprehensively covers basic fiber optic facts Explains how optics relate to everyday life Details fiber optic communication standards Chapter included on medical applications Timeline traces the history of optics with major milestones *Plastic Optical Fibers and Applications* IGIC, Inc. Staff,John Bliss,1994 *Fundamentals of Sensor Technology* Ahmed Barhoum,Zeynep Altintas,2023-05-05 Fundamentals of Sensor Technology Principles and Novel Designs presents an important reference on the materials platforms characterization and fabrication methods used in the development of chemical sensor technologies Sections provide the historical context of sensor technology development review principles for the design of sensing devices and circuits delve into the most common chemical and biological sensor types cover unique properties and performance requirements discuss fabrication techniques including defining critical parameters modeling and simulation strategies and present important materials categories used in sensing applications such as nanomaterials quantum dots magnetic materials and more This book is appropriate for the interdisciplinary community of researchers and practitioners interested in the development of sensor technologies including materials scientists and engineers analytical chemists and other related disciplines Provides a comprehensive view of the latest advances in the design of chemical sensor materials devices and platforms Reviews the most relevant nanosensor fabrication techniques for each sensor type including critical parameters modeling simulation strategies and characterization methods Discusses enhancement strategies for materials and devices to help improve physical chemical and biological

properties and enable practical applications **Fundamentals of Micro-Optics** Hans Zappe,2010-09-30 From optical fundamentals to advanced applications this comprehensive guide to micro optics covers all the key areas for 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 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 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 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 **Fiber Optic Essentials** K. S. Thyagarajan,Ajoy Ghatak,2007-08-31 Fiber Optic Essentials starts with a basic discussion on lightwaves and the phenomenon of refraction and reflection It then goes on to introduces the reader to the field of fiber optics and covers some of the recent developments such as fiber amplifiers dispersion compensation and nonlinear effects A number of other

applications are also presented Examples and comparison with everyday experience are provided wherever possible to help the reader's comprehension Diagrams are also included to aid in the visualization of certain concepts

Optical Fiber Sensor Technology K. T. V. Grattan, B. T. Meggitt, 2000-09-30 This book has been designed to be an essential reference work on all aspects of Optical Fiber Sensors and the associated technology Optical Fiber Sensor Technology Fundamentals deals with the fundamentals of the subject in terms of the essential physics and mathematical background required for a fuller understanding of optical fiber systems It draws upon a group of authors from industry and academia with an international reputation for their work in the field Optical Fiber Sensor Technology Fundamentals provides the essential first step in the appreciation of the essential principles of optical fiber devices The chapters are of a fundamental nature yet topical in their use of material well illustrated and referenced and point to hundreds of key references accessible in the open literature to interested readers Commercial systems applications and patent data are included where appropriate in the chapters with particular reference to the applicability to industry of the techniques described This volume is an authoritative comprehensive and up to date reference text and will be of interest to researchers and industry professionals working in the field of optical fibers optoelectronics and measurement and sensing

Light Essentials Pasquale De Marco, 2025-03-09 Embark on an enlightening journey into the captivating world of light with this comprehensive guide Light Essentials Unraveling the Mysteries of Optics Discover the fundamental properties of light its interactions with matter and its diverse applications in modern technology Delve into the historical development of optics tracing the footsteps of great minds like Newton Huygens Einstein and Schrödinger Witness the evolution of our understanding of light from the early theories of wave particle duality to the groundbreaking revelations of quantum optics Explore the practical applications of light in fields as vast as medicine telecommunications and energy production Learn how light enables medical imaging techniques revolutionizes communication networks and harnesses solar energy Discover the intricacies of fiber optics lasers and optoelectronics and unravel the mysteries of nonlinear optics and quantum optics Whether you are a student seeking a deeper comprehension of optics a scientist pushing the boundaries of knowledge or simply a curious mind eager to explore the wonders of the universe Light Essentials will illuminate your understanding and captivate your imagination Prepare to be enlightened as you traverse this journey through the fascinating realm of light With its accessible writing style engaging explanations and beautifully crafted illustrations Light Essentials is the ultimate guide to optics for anyone seeking to unravel the mysteries of this fundamental force that shapes our world If you like this book write a review

Handbook of Nanosensors Gomaa A. M. Ali, Kwok Feng Chong, Abdel Salam H. Makhoul, 2024-05-27 This book discusses the advances in sensor technologies and sensing efficiency It highlights different sensor applications including humidity gas fluorescent biological optical radiation etc The chapters discuss recycled and biodegradable materials based sensors as well as sensing techniques and theories The different approaches employed to modify the electrode surfaces of sensors to lower the

overpotential enhance sensitivity to enrich the desired species and or lessen the influence of interferences are also covered
This handbook is structured in seven sections including fundamentals of sensor technologies types of sensors and medical
biological environmental and industrial applications of sensors

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