

Andrea Cusano
Marco Consales
Alessio Crescitelli
Armando Ricciardi *Editors*

Lab-on-Fiber Technology



Springer

Lab On Fiber Technology Springer Series In Surface Sciences

Michael Rajnik



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Lab-on-Fiber Technology Andrea Cusano, Marco Consales, Alessio Crescitelli, Armando Ricciardi, 2014-07-29 This book focuses on a research field that is rapidly emerging as one of the most promising ones for the global optics and photonics community the lab on fiber technology Inspired by the well established lab on a chip concept this new technology essentially envisages novel and highly functionalized devices completely integrated into a single optical fiber for both communication and sensing applications Based on the R D experience of some of the world s leading authorities in the fields of optics photonics nanotechnology and material science this book provides a broad and accurate description of the main developments and achievements in the lab on fiber technology roadmap also highlighting the new perspectives and challenges to be faced This book is essential for scientists interested in the cutting edge fiber optic technology but also for graduate students

Optical Fiber Sensors Ginu Rajan, 2017-12-19 Optical Fiber Sensors Advanced Techniques and Applications describes the physical principles of and latest developments in optical fiber sensors Providing a fundamental understanding of the design operation and practical applications of fiber optic sensing systems this book Discusses new and emerging areas of research including photonic crystal fiber sensors micro and nanofiber sensing liquid crystal photonics acousto optic effects in fiber and fiber laser based sensing Covers well established areas such as surface plasmon resonance sensors interferometric fiber sensors polymer fiber sensors Bragg gratings in polymer and silica fibers and distributed fiber sensors Explores humidity sensing applications smart structure applications and medical applications supplying detailed examples of the various fiber optic sensing technologies in use Optical Fiber Sensors Advanced Techniques and Applications draws upon the extensive academic and industrial experience of its contributing authors to deliver a comprehensive introduction to optical fiber sensors with a strong practical focus suitable for undergraduate and graduate students as well as scientists and engineers working in the field

Fiberglass Science and Technology Hong Li, 2021-08-20 This book highlights recent developments in fiberglass research and technology development including high performance fiberglass chemistry in depth glass network structure information derived from the state of the art spectroscopic measurements molecular dynamics simulations and their correlations with properties fiber surface chemistry in relation to sizing chemistry a critical part of composite performance fiber process stability fundamental understanding of the batch to melt conversion processes and melt flow simulations and environmental concerns such as energy efficiency and emission of volatile species which are key to environmentally friendly product manufacturing The book aims to guide fiberglass researchers and manufacturers towards better awareness and perhaps provides potential options for global ecosystem management More than 500 current references are included which will enable researchers from fiber glass industry and research institution access to the most recent progress in fiberglass science and technology Advances scientific understanding of fiberglass forming processes rising in popularity as a building material throughout the world Describes the current advances in the

structure and formation of fiber glass beginning with chemistry a wide range of characterizations and processes through to applications Contains information on environmental aspects of fiberglass production addressing energy consumption and emission **Springer Handbook of Wood Science and Technology** Peter Niemz, Alfred Teischinger, Dick

Sandberg, 2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology **Bast Fibers and Their Composites** G. Rajeshkumar, G.L. Devnani, Shishir Sinha, M.R. Sanjay, Suchart

Siengchin, 2022-09-20 This edited book focuses on processing properties and applications of bast fiber and its composites written by renowned researchers and academicians The contents focus on properties such as rheological and dielectric of bast fiber composites It also discusses its dynamic mechanical analysis thermal stability of polymer composites reinforced with bast fibers and water absorption behavior of bast fiber incorporated polymer composites This book will be beneficial to both the industry and academia as it highlights possible avenues of future research **Advances in Optofluidics** Xuming

Zhang, 2018-08-15 This book is a printed edition of the Special Issue Advances in Optofluidics that was published in Micromachines **AETA 2016: Recent Advances in Electrical Engineering and Related Sciences** Vo Hoang Duy, Tran Trong Dao, Sang Bong Kim, Nguyen Tan Tien, Ivan Zelinka, 2016-12-02 These lecture notes present selected topics concerning a wide range of electrical and electronics applications highlighting innovative approaches and offering state of the art overviews The book is divided into 14 topical areas including e g telecommunication power systems robotics control systems renewable energy mechanical engineering computer science and more Readers will find revealing papers on the design and implementation of control algorithms for automobiles and electrohydraulic systems efficient protocols for vehicular ad hoc networks and motor control and energy saving methods that can be applied in various fields of electrical engineering The book offers a valuable resource for all practitioners who want to apply the topics discussed to solve real world problems in

their challenging applications Offering insights into common and related subjects in the research fields of modern electrical electronic and related technologies it will also benefit all scientists and engineers working in the above mentioned fields

Textile Technology Digest ,1988 **Monthly Catalogue, United States Public Documents** ,1987 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1987 **Physics Briefs** ,1994 **Photonics Elements for Sensing and Optical Conversions** Nikolay L. Kazanskiy,2023-12-08 This book covers a number of a rapidly growing areas of knowledge that may be termed as diffractive nanophotonics It also discusses in detail photonic components that may find uses in sensorics and optical transformations Photonics Elements for Sensing and Optical Conversions covers a number of rapidly growing areas of knowledge that may be termed as diffractive nanophotonics The book examines the advances in computational electrodynamics and nanoelectronics that have made it possible to design and manufacture novel types of photonic components and devices boasting unique properties unattainable in the realm of classical optics The authors discuss plasmonic sensors and new types of wavefront sensors and nanolasers that are widely used in telecommunications quantum informatics and optical transformations The book also deals with the recent advances in the plasmonic sensors based on metal insulator metal waveguides for biochemical sensing applications Additionally nanolasers are examined in detail with a focus on contemporary issues the book also deals with the fundamentals and highly attractive applications of metamaterials and metasurfaces The authors provide an insight into sensors based on Zernike optical decomposition using a multi order diffractive optical element and explore the performance advances that can be achieved with optical computing The book is written for opticians scientists and researchers who are interested in an interesting section of plasmonic sensors new types of wavefront sensors and nanolasers and optical transformations The book will be bought by upper graduate and graduate level students looking to specialize in photonics and optics Research Developments in Wood Engineering and Technology Aguilera, Alfredo,Davim, J. Paulo,2013-09-30 This book examines the latest research advances and technological developments for wood material as an engineering product and the innovation it provides for environmental friendly materials Provided by publisher The Laser Manufacturing Process Anooshiravan Farshidianfar,Seyedeh Fatemeh Nabavi,Mohammad Hossein Farshidianfar,2024-08-21 The Laser Manufacturing Process is a comprehensive guide to industrial laser processes offering insights into their fundamentals applications across industries production specifics and characteristics including mechanical metallurgical and geometrical aspects as well as potential defects The book also investigates how industrial laser processes are developed and the diverse attributes of the resulting objects emphasizing their significance in industrial settings Here objects refer to the tangible outcomes of laser manufacturing encompassing a wide array of products and components created through processes like cutting welding and additive manufacturing These objects exhibit distinct mechanical properties metallurgical characteristics and geometrical precision all of which are crucial considerations in their utility and performance within industrial environments This book

functions as a concise reference manual catering to the needs of both students and professionals who require knowledge related to laser manufacturing processes such as laser cutting laser welding and laser additive manufacturing processes

Cities and Their Vital Systems Advisory Committee on Technology and Society,1989 *Cities and Their Vital Systems* asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible

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Space Exploration—A History in 100 Objects Sten Odenwald,2019-11-01 This is no ordinary space book Within the pages of this eclectic pop history scientist and educator Sten Odenwald at NASA examines 100 objects that forever altered what we know and how we think about the cosmos From Sputnik to Skylab and Galileo s telescope to the Curiosity rover some objects are iconic and some obscure but all are utterly important The Nebra sky disk 1600 BCE features the first realistic depiction of the Sun Moon and stars The Lunar Laser Ranging RetroReflector finally showed us how far we are from the Moon in 1969 In 1986 it was the humble rubber O ring that doomed the space shuttle Challenger The Event Horizon Telescope gave us our first glimpse of a black hole in 2019 These 100 objects as Odenwald puts it showcase the workhorse tools and game changing technologies that have altered the course of space history the tools and devices that taken together represent the major scientific discoveries and celebrate the human ingenuity of space technology showing the ways physics and engineering have brought about our greatest leaps in understanding the way our universe works They make it clear that we have made giant strides in our quest to search ever more deeply into the farthest reaches of the universe and behind each new discovery is an object that expands our appreciation of space as well as the boundless imagination and resourcefulness we carry within us

Forensic Chemistry Jay A. Siegel,2015-10-05 *Forensic Chemistry Fundamentals and Applications* presents a new

approach to the study of applications of chemistry to forensic science It is edited by one of the leading forensic scientists with each chapter written by international experts specializing in their respective fields and presents the applications of chemistry especially analytical chemistry to various topics that make up the forensic scientists toolkit This comprehensive textbook includes in depth coverage of the major topics in forensic chemistry including illicit drugs fibers fire and explosive residues soils glass and paints the chemistry of fingerprint recovery on porous surfaces the chemistry of firearms analysis as well as two chapters on the key tools of forensic science microscopy and chemometrics Each topic is explored at an advanced college level with an emphasis throughout the text on the use of chemical tools in evidence analysis Forensic Chemistry Fundamentals and Applications is essential reading for advanced students of forensic science and analytical chemistry as well as forensic science practitioners researchers and faculty and anyone who wants to learn about the fascinating subject of forensic chemistry in some depth This book is published as part of the AAFS series Forensic Science in Focus *IEICE Transactions on Electronics*, 2002 *Non-Linear Viscoelasticity of Rubber Composites and Nanocomposites* Deepalekshmi Ponnammam, Sabu Thomas, 2014-11-20 Advances in Polymer Science enjoys a longstanding tradition and good reputation in its community Each volume is dedicated to a current topic and each review critically surveys one aspect of that topic to place it within the context of the volume The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically presenting selected examples explaining and illustrating the important principles and bringing together many important references of primary literature On that basis future research directions in the area can be discussed Advances in Polymer Science volumes thus are important references for every polymer scientist as well as for other scientists interested in polymer science as an introduction to a neighboring field or as a compilation of detailed information for the specialist

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