

Kinji Asaka - Hidenori Okuzaki *Editors*

Soft Actuators

Materials, Modeling, Applications, and
Future Perspectives

Second Edition

 Springer

Soft Actuators Materials Modeling Applications And Future Perspectives

**Chaudhery Mustansar Hussain, Kalim
Deshmukh**



Soft Actuators Materials Modeling Applications And Future Perspectives:

Soft Actuators Kinji Asaka, Hidenori Okuzaki, 2014-11-17 The subject of this book is the current comprehensive research and development of soft actuators and encompasses interdisciplinary studies of materials science mechanics electronics robotics and bioscience As an example the book includes current research on actuators based on biomaterials to provide future perspectives for artificial muscle technology Readers can obtain detailed useful information about materials methods of synthesis fabrication and measurements The topics covered here not only promote further research and development of soft actuators but also lead the way to their utilization and industrialization One outstanding feature of the book is that it contains many color figures diagrams and photographs clearly describing the mechanism apparatus and motion of soft actuators The chapter on modeling is conducive to more extensive design work in materials and devices and is especially useful in the development of practical applications Readers can acquire the newest technology and information about the basic science and practical applications of flexible lightweight and noiseless soft actuators which are quite unlike conventional mechanical engines and electric motors The new ideas offered in this volume will provide inspiration and encouragement to researchers and developers as they explore new fields of applications for soft actuators **Soft**

Actuators Kinji Asaka, Hidenori Okuzaki, 2019-08-28 This book is the second edition of Soft Actuators originally published in 2014 with 12 chapters added to the first edition The subject of this new edition is current comprehensive research and development of soft actuators covering interdisciplinary study of materials science mechanics electronics robotics and bioscience The book includes contemporary research of actuators based on biomaterials for their potential in future artificial muscle technology Readers will find detailed and useful information about materials methods of synthesis fabrication and measurements to study soft actuators Additionally the topics of materials modeling and applications not only promote the further research and development of soft actuators but bring benefits for utilization and industrialization This volume makes generous use of color figures diagrams and photographs that provide easy to understand descriptions of the mechanisms apparatus and motions of soft actuators Also in this second edition the chapters on modeling materials design and device design have been given a wider scope and made easier to comprehend which will be helpful in practical applications of soft actuators Readers of this work can acquire the newest technology and information about basic science and practical applications of flexible lightweight and noiseless soft actuators which differ from conventional mechanical engines and electric motors This new edition of Soft Actuators will inspire readers with fresh ideas and encourage their research and development thus opening up a new field of applications for the utilization and industrialization of soft actuators Additive Manufacturing of Functional Polymers and Nanocomposites Chaudhery Mustansar Hussain, Kalim Deshmukh, 2025-04-29 Additive Manufacturing of Functional Polymers and Nanocomposites Recent Progress Applications Challenges and Future Opportunities provides up to date knowledge in this important research field The book provides a comprehensive overview of

the whole development phase from material synthesis to component design and manufacturing and applications. The contents are divided into five key parts. Section 1 introduces additive manufacturing of functional polymers and nanocomposites and discusses the numerous developments and perspectives that have been perceived over recent years. Section 2 looks at the various types of functional polymers and nanocomposite materials including their characterization and the various synthesis techniques that can be employed to fabricate customized objects using AM technologies. Section 3 focuses on the use of functional polymers and nanocomposites in a broad range of applications including health care, electronics, automotive, robotics, aerospace and other industrial sectors. Section 4 focuses on theoretical modeling and machine learning approaches. Section 5 discusses key challenges, the environmental and health impact, commercialization aspects and opportunities for the future. Focuses on additive manufacturing of functional polymers and nanocomposites. Covers fundamental aspects of additive manufacturing and materials processing techniques used to obtain optimized product design. Covers a broad range of progressive additive manufacturing techniques. Provides detailed information on additively manufactured smart structures and customized parts for different applications. Presents recent studies in a fast evolving scientific research field.

Robotics and automation for improving agriculture Prof John Billingsley, 2019-06-30 Primary focus on developing fully autonomous robotic systems in agriculture. Comprehensive review of advances in the key technologies underpinning agricultural robotics. Particularly strong coverage of the applications of agricultural robotics in different aspects of crop management from planting to harvesting.

Advances in Nanomaterials for Detection, Control, and Removal of Environmental Pollutants Amit Kumar Singh, Ajaya Kumar Singh, Md. Abu Bin Hasan Susan, 2025-06-06 This book presents a comprehensive exploration of the latest research in nanomaterial development for environmental pollution control. It delves into various themes including the utilization of nanosensors in environmental monitoring, the creation of nano adsorbents and nanocatalysts for pollutant removal and degradation, and the potential application of nanomaterials and nanotechnology in remediating contaminated sites. The book also addresses potential risks associated with using nanomaterials in environmental pollution control, discussing nanotoxicology and the potential environmental and health impacts of nanomaterials. Furthermore, it explores the existing regulatory framework for nanomaterial usage in environmental pollution control and outlines future directions for developing and implementing nanomaterials in this domain. Featuring collected contributions from an international cross section of active researchers in this broad and interdisciplinary field, this book caters to scientists, researchers, students and professionals in environmental science, chemistry, materials science and nanotechnology. It provides a detailed overview of recent advancements in nanomaterial development and application for environmental pollution control, emphasizing how nanotechnology holds promise for delivering effective solutions to environmental challenges.

Stimuli-Responsive Materials for Tissue Engineering Senentxu Lanceros-Mendez, Clarisse Ribeiro, Unai Silvan, 2025-02-03 Enables advanced tissue regeneration approaches via expertise from the fields of materials

science and biology Stimuli Responsive Materials for Tissue Engineering comprehensively reviews the use of stimuli responsive materials in the context of advanced tissue engineering approaches highlighting applications challenges and solutions and reporting on the current state of the art of smart and multifunctional materials being used for tissue engineering focusing on material types and their properties The progress that has already been achieved in the field is put into perspective by covering the remaining challenges in the research field of tissue engineering and solutions are outlined to overcome those By addressing challenges and ways to overcome them Stimuli Responsive Materials for Tissue Engineering is a highly practical resource on advanced tissue regeneration Stimuli Responsive Materials for Tissue Engineering contains information on Smart and multifunctional materials for tissue engineering covering electroactive and magnetoactive materials Shape memory photo responsive and controlled degradation of stimuli responsive materials Tissue regeneration strategies based on smart and active biomaterials covering bone heart and neural tissue regeneration Main applications where these biomaterials can be applied such as in bone muscle and skin regeneration Other potential areas where the covered biomaterials are expected to make a major impact in the next decade With comprehensive coverage of the subject Stimuli Responsive Materials for Tissue Engineering is an essential resource for materials scientists bioengineers engineering scientists and biotechnologists seeking to understand advanced tissue regeneration approaches current challenges and potential solutions to advance progress in the field

Polymer-Based Functional Nanocomposites

Nakshatra Bahadur Singh, Saroj Kr. Shukla, 2025-09-12 This book offers a thorough insight into polymer based functional nanocomposites covering their development properties and applications It describes advanced processing techniques that enhance mechanical optical and photonic performances of these materials Emphasizing their transformative role it highlights cutting edge applications in electronics water purification and sustainability This book also assesses the economic viability and market potential of these materials bridging the gap between research and real world impact Ultimately it envisions how polymer nanocomposites will drive future innovations and revolutionize materials science Key features Provides a comprehensive overview of polymer nanocomposite fundamentals processing techniques and property enhancements Highlights advancements in electronics electrical industries and sustainability applications Examines the economic viability industrial potential and commercialization challenges Explores emerging innovations and the role of nanocomposites in shaping next generation technologies This book provides a comprehensive insight into polymer based nanocomposites from fundamentals to industrial applications and future prospects It is an essential resource for researchers academics engineers industry professionals innovators and entrepreneurs

Actuators Constantin Volosencu, 2018-07-11 The book promotes new research results in the field of modern actuators and their applications New coverage of dielectric barrier discharge plasma actuators polymeric microgripper based on the cascaded V shaped electrothermal actuators ionic polymer actuators wideband actuators and energy harvesters electromagnetic actuators and shape memory alloy actuators are comprehended

The book is structured in four sections design fabrication and simulation control systems medical applications and fault detection Seven chapters are published following a rigorous selection process In the first section a study carried out to investigate experimentally and by numerical simulations a microscale plasma actuator the design fabrication numerical simulations and experimental investigations of a polymeric microgripper designed using the cascaded V shaped electrothermal actuators a review of the development of ionic polymer actuator with introduction of two kinds of typical polymer actuators ionic polymer metal composites and bucky gel actuator with their basic principle and fabrication process and typical applications and a methodology of designing and testing wideband actuators and energy harvesters treated as one mechanical resonator with a discussion on shock harvester resonant harvester and energy transmission system are presented The second section has a chapter dedicated to modeling system identification and control of electromagnetic actuators with main focus on the actuators used in magnetic levitation in fuel injection systems and in variable valve timing The third section presents a study focused on quantifying the decline in tactile sensation associated with diabetic neuropathy and developed a measurement device that used a thin shaped memory alloy wire as the actuator The fourth section includes a chapter presenting a two level fault diagnosis and root cause analysis scheme for a class of interconnected invertible dynamic systems which aims at detecting and identifying actuator fault and causes

Magnetoelectric Polymer-Based Composites Senentxu Lanceros-Méndez, Pedro Martins, 2017-10-23 The first book on this topic provides a comprehensive and well structured overview of the fundamentals synthesis and emerging applications of magnetoelectric polymer materials Following an introduction to the basic aspects of polymer based magnetoelectric materials and recent developments subsequent chapters discuss the various types as well as their synthesis and characterization There then follows a review of the latest applications such as memories sensors and actuators The book concludes with a look at future technological advances An essential reference for entrants to the field as well as for experienced researchers

Quantum Optics Devices on a Chip Inamuddin, Tariq Altalhi, Naif Ahmed Alshehri, Jorddy Neves Cruz, 2025-06-18 Quantum Optics Devices on a Chip provides a comprehensive understanding of how the integration of advanced quantum technologies and photonics is revolutionizing multiple industries making it essential for anyone interested in the future of quantum innovation Quantum Optics Devices on a Chip is situated at the intersection of several disciplines and industries driving advancements in quantum technology and integrated photonics The development of quantum optics devices on a chip represents a significant breakthrough Chip scale integration involves designing and fabricating optical devices such as waveguides modulators detectors and light sources on a micro or nanoscale chip This miniaturization enables the integration of multiple components on a single chip leading to compact efficient and scalable quantum optical systems Quantum sensing applications such as magnetometry gyroscopy and biosensing can benefit from miniaturized high performance devices integrated on a chip allowing for the seamless integration of quantum optical functionalities with existing photonic circuits This integration holds

promise for applications in telecommunications data communication and optical signal processing Overall the development of quantum optics devices on a chip represents a significant step forward in the advancement of quantum technology It brings together principles from physics materials science engineering and computer science to enable the practical implementation of quantum phenomena for a wide range of applications across industries Quantum Optics Devices on a Chip serves as a comprehensive guide to this rapidly evolving field providing insights and knowledge exploring the contributions it has made to the disciplinary and industrial development of quantum optics devices on a chip

Nanosized Titania Composites for Reinforcement of Photocatalysis and Photoelectrocatalysis Maksym Zahornyi,Georgii Sokolsky,2022-02-06 This book discusses recent advances in the photocatalytic and electrophotocatalytic applications of titanium dioxide nanocomposites containing polymers and other components These materials possess photocatalytic virucidal and antimicrobial efficacy and water and air cleaning abilities against eco toxicants and allow water splitting for the generation of chemical fuels The book considers the ability of nanocomposites components to reinforce titania functionality in photocatalysis and photoelectrocatalysis and presents an overview of their occurrence in nature their thermodynamic properties and their toxicity The volume will be of interest to chemists and material science specialists and practitioners as well as any reader interested in the recent scientific achievements for green and sustainable development

Polymer Nanocomposites for 3D, 4D and 5D Printing Srikanta Moharana,Bibhuti B. Sahu,Santosh Kumar Satpathy,Subhendu Chakroborty,2025-05-03 This book presents a guide to polymer nanocomposites for 3D 4D and 5D printing filling the gap between studies and research in the real world and facilitating its use by engineers technicians and designers in their own products and projects It introduces the reader to cutting edge 3D 4D and 5D printing techniques as well as the newest innovations in polymer based printing materials so that they may reap the benefits of this revolutionary technology The book covers the fundamentals methods materials and printability concerns involved in preparing polymer composites for 3D 4D and 5D printing Subsequently the most important applications are described in detail including electrical electronic and biological uses each of which has its own unique set of design manufacturing and processing requirements

Materials and Components of Biosensors in Healthcare Md Saquib Hasnain,Amit Kumar Nayak,Tejraj M. Aminabhavi,2025-01-27 Materials and Components of Biosensors in Healthcare Volume Two provides comprehensive coverage and a detailed examination of the various materials and components used in the development of biosensors The book begins with an introduction and then discusses the biochemical inorganic and biopolymeric components used in biosensor assembly It goes on to detail a range of materials such as nanoparticles biological cellular structures electrochemical and electromagnetic materials and how they are used in biosensors Combined with Fundamentals of Biosensors in Healthcare Volume One and Applications of Biosensors in Healthcare Volume Three this trio provides holistic reference sources suitable for researchers graduate students postgraduates and industry professionals involved in biosensing biosensors and biomedical applications Reviews a range of

materials and components used in biosensors and biosensing Discusses current research potential challenges and future prospects for the synthesis of biosensing materials Contributed to by global leaders and experts in the field from academia research and industry Polyphenol Oxidases Pradeep Verma,Komal Agrawal,Maulin P. Shah,2024-04-22 Currently there are no books that cover all the dimensions of Polyphenol Oxidases PPOs which is why publication of the book is needed The book focuses on its types structure distinctive aspects applications genetic engineering and commercial status PPOs have been used for wastewater remediation and in environmental biosensors The role of PPOs in global sustainability along with challenges and future prospects is also discussed *Polymer Nanocomposite-Based Smart Materials* Rachid Bouhfid,Abou el Kacem Qaiss,Mohammad Jawaaid,2020-05-19 Polymer Nanocomposite Based Smart Materials From Synthesis to Application provides a broad comprehensive review on all major categories of smart materials and their preparation routes The main application fields and properties for these diverse types of smart polymer based composite and nanocomposite materials are also discussed Chapters on modeling methods and simulation look at the physical or chemical change response that is introduced by the effect of changing environmental conditions such as pH temperature mechanical force and light Written by scholars and experts from around the globe the book covers key aspects such as synthesis processing and applications of polymer and nanocomposite based smart materials Features a board range of different polymer nanocomposites based smart materials Contains coverage of synthesis applications as well as experimental modeling and theoretical results Includes comprehensive coverage on preparation and testing methods **Advanced Sensors for Smart Healthcare** Tuan Anh Nguyen,2025-01-27 Advanced Sensors for Smart Healthcare provides an invaluable resource for researchers and healthcare practitioners who are eager to use technology to improve the lives of patients Sections highlight data from sensor networks via the smart hospital framework including data insights and access This book shows how the use of sensors to gather data on a patient s condition and the environment their care takes place in can allow healthcare professionals to monitor well being and make informed decisions about treatment Describes the fundamentals of sensors biosensors and smart hospitals Explains how sensors and implanted nanodevices can be used in smart healthcare Discusses how intelligent wireless medical sensor networks can be used for healthcare in the future Companion volume to Sensor Networks for Smart Hospitals

Antimicrobial and Antiviral Materials Peerawatt Nunthavarawong,Sanjay Mavinkere Rangappa,Suchart Siengchin,Mathew Thoppil-Mathew,2022-05-19 Emerging microbial and viral infections are a serious challenge to health safety and economics around the world Antimicrobial and antiviral technologies are needed to disrupt the progression and replication of bacteria and viruses and to counter their rapidly evolving resistance This book discusses recent developments in materials science and engineering in combating infectious diseases and explores advances in antimicrobial and antiviral materials including polymers metals and ceramics and their applications in the fight against pathogens Features Covers progress in biomimetic antimicrobial and antiviral materials and antimicrobial antiviral bulk materials and coatings Describes

modern methods for disinfection of biomedical materials against microbial and viral infection resistance especially for depressing novel coronavirus COVID 19 Details methods to improve material properties to have a longer service life in combating infection Emphasizes chemical physical mechanical tribological and antimicrobial antiviral properties Offers current and future applications of emerging antimicrobial antiviral technologies This book will be of interest to materials researchers and industry professionals focusing on antimicrobial and antiviral applications

Electroactive Polymeric Materials Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Adil A. Gobouri, 2022-04-28 Electroactive polymers are smart materials that can undergo size or shape structural deformations in the presence of an electrical field These lightweight polymeric materials possess properties such as flexibility cost effectiveness rapid response time easy controllability especially physical to electrical and low power consumption Electroactive Polymeric Materials examines the history progress synthesis and characterization of electroactive polymers and then details their application and potential in fields including biomedical science environmental remediation renewable energy robotics sensors and textiles Highlighting the flexibility lightweight cost effective rapid response time easy controllability and low power consumption characteristics of electroactive polymers respected authors in the field explore their use in sensors actuators MEMS biomedical apparatus energy storage packaging textiles and corrosion protection to provide readers with a powerhouse of a reference to use for their own endeavors Features Explores the most recent advances in all categories of ionic electroactive polymer composite materials Includes basic science addresses novel topics and covers multifunctional applications in one resource Suitable for newcomers academicians scientists and R D industrial experts working in polymer technologies

Polymers in Organic Electronics Sulaiman Khalifeh, 2020-04-01 Polymers in Organic Electronics Polymer Selection for Electronic Mechatronic and Optoelectronic Systems provides readers with vital data guidelines and techniques for optimally designing organic electronic systems using novel polymers The book classifies polymer families types complexes composites nanocomposites compounds and small molecules while also providing an introduction to the fundamental principles of polymers and electronics Features information on concepts and optimized types of electronics and a classification system of electronic polymers including piezoelectric and pyroelectric optoelectronic mechatronic organic electronic complexes and more The book is designed to help readers select the optimized material for structuring their organic electronic system Chapters discuss the most common properties of electronic polymers methods of optimization and polymeric structured printed circuit boards The polymeric structures of optoelectronics and photonics are covered and the book concludes with a chapter emphasizing the importance of polymeric structures for packaging of electronic devices Provides key identifying details on a range of polymers micro polymers nano polymers resins hydrocarbons and oligomers Covers the most common electrical electronic and optical properties of electronic polymers Describes the underlying theories on the mechanics of polymer conductivity Discusses polymeric structured printed circuit boards including their rapid prototyping and optimizing their polymeric structures

Shows optimization methods for both polymeric structures of organic active electronic components and organic passive electronic components **Polymeric Gels** Kunal Pal, Indranil Banerjee, 2018-06-15 Polymeric Gels Characterization Properties and Biomedical Applications covers the fundamentals and applications of polymeric gels Particular emphasis is given to their synthesis properties and characteristics with topics such as natural synthetic and smart polymeric gels medical applications and advancements in conductive and magnetic gels presented The book covers the basics and applications of hydrogels providing readers with a comprehensive guide on the types of polymeric gels used in the field of biomedical engineering Provides guidance for decisions on the suitability and appropriateness of a synthetic route and characterization technique for particular polymeric networks Analyzes and compares experimental data Presents in depth information on the physical properties of polymeric gels using mathematical models Uses an interdisciplinary approach to discuss potential new applications for both established polymeric gels and recent advances

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