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Next-Generation Actuators Leading Breakthroughs Toshiro Higuchi, Koichi Suzumori, Satoshi Tadokoro, 2009-12-04
Next Generation Actuators Leading Breakthroughs is the proceedings of the final symposium of MEXT Grant in Aid for Scientific Research on Priority Areas Next Generation Actuators Leading Breakthroughs held in January 2010 Since the realization of next generation actuators requires an interdisciplinary approach the research has been organized according to a broad technological perspective that consists of actuators for small motion of nano meters small size actuators of micro meters structures intelligent actuators for functional motions power actuators for large force torque and actuators for special environments Next Generation Actuators Leading Breakthroughs also deals with common fundamental technologies for these actuators such as intelligent materials machining processes control technologies evaluation methods and system integration It provides cutting edge research for researchers postgraduates and practitioners in mechanical electrical and materials industries

Next-Generation Smart Biosensing Kamil Reza Khondakar, Ajeet Kumar Kaushik, 2024-01-14
Quantum Sensing at the Interface of Nanotechnology Integrated Microfluidics provides broad multidisciplinary coverage of innovative quantum sensing technologies suitable to industries in the engineering biomedical healthcare and environmental sectors Sections discuss emerging quantum sensing and with an introduction to microfluidic devices smart sensors the role of nanotechnology smart sensing and the role of quantum technology and artificial intelligence for nano enabled microfluidics Sensing technologies and nano enabled microfluidics and their biomedical and industrial applications are explored This will be a useful resource for those in research and industry interested in biotechnology nanotechnology sensing technology and their applications in multidisciplinary fields Provides an introduction to the types of microfluidic devices smart sensors and the role of nanotechnology Covers smart sensing for multidisciplinary sectors Explores the challenges and prospects of nano microfluidics systems

Strain Mechanisms in Lead-Free Ferroelectrics for Actuators Matias Acosta, 2016-01-27
This book addresses and analyzes the mechanisms responsible for functionality of two technologically relevant materials giving emphasis on the relationship between structural transitions and electromechanical properties The author investigates the atomic crystal structure and microstructure by means of thermal analysis as well as diffraction and microscopy techniques Electric field temperature and frequency dependent electromechanical properties are also described Apart from this correlation between structure and properties characterization was also performed to bridge between basic research and optimization of application oriented parameters required for technological implementation The author proposes guidelines to the reader in order to engineer functional properties in other piezoelectric systems as well as in other similar functional materials with the perovskite structure

Progress in Automation, Robotics and Measuring Techniques Roman Szweczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2015-03-09
This book presents recent progresses in control automation robotics and measuring techniques It includes contributions of top experts in the fields focused on both theory and industrial

practice The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation and results of an implementation for the solution of a real world problem The presented theoretical results practical solutions and guidelines will be useful for both researchers working in the area of engineering sciences and for practitioners solving industrial problems

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

Service Robotics and Mechatronics Keiichi Shirase,Seiji Aoyagi,2009-10-24 In a world suffering from an ageing population and declining birth rate service robotics and mechatronics have an increasingly vital role to play in maintaining a safe and sustainable environment for everyone Mechatronics can be used in the reconstruction or restoration of various environments which we rely upon to survive for example the reconstruction of a city after an earthquake or the restoration of polluted waters This collection of papers was originally presented at the 7th International Conference on Machine Automation 2008 in Awaji Japan and covers a variety of new trends in service robotics and mechatronics Service Robotics and Mechatronics showcases the latest research in the area to provide researchers and scientists with an up to date source of knowledge and basis for further study as well as offering graduate students valuable reference material

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Optical Nano and Micro Actuator Technology George K. Knopf, Yukitoshi Otani, 2017-12-19 In *Optical Nano and Micro Actuator Technology* leading engineers material scientists chemists physicists laser scientists and manufacturing specialists offer an in depth wide ranging look at the fundamental and unique characteristics of light driven optical actuators They discuss how light can initiate physical movement and control a variety of mechanisms that perform mechanical work at the micro and nanoscale The book begins with the scientific background necessary for understanding light driven systems discussing the nature of light and the interaction between light and NEMS MEMS devices It then covers innovative optical actuator technologies that have been developed for many applications The book examines photoresponsive materials that enable the design of optically driven structures and mechanisms and describes specific light driven technologies that permit the manipulation of micro and nanoscale objects It also explores applications in optofluidics bioMEMS and biophotonics medical device design and micromachine control Inspiring the next generation of scientists and engineers to advance light driven technologies this book gives readers a solid grounding in this emerging interdisciplinary area It thoroughly explains the scientific language and fundamental principles provides a holistic view of optical nano and micro actuator systems and illustrates current and potential applications of light driven systems

Micro Electronic and Mechanical Systems Kenichi Takahata, 2009-12-01 This book discusses key aspects of MEMS technology areas organized in twenty seven chapters that present the latest research developments in micro electronic and mechanical systems The book addresses a wide range of fundamental and practical issues related to MEMS advanced metal oxide semiconductor MOS and complementary MOS CMOS devices SoC technology integrated circuit testing and verification and other important topics in the field Several chapters cover state of the art microfabrication techniques and materials as enabling technologies for the microsystems Reliability issues concerning both electronic and mechanical aspects of these devices and systems are also addressed in various chapters

The Science of Soft Robots Koichi Suzumori, Kenjiro Fukuda, Ryuma Niiyama, Kohei Nakajima, 2023-09-12 The goal of this textbook is to equip readers with as structured knowledge of soft robotics as possible Seeking to overcome the limitations of conventional robots by making them more flexible gentle and adaptable soft robotics has become one of the most active fields over the last decade Soft robotics is also highly interdisciplinary bringing together robotics computer science material science biology etc After the introduction the content is divided into three parts Design of Soft Robots Soft Materials and Autonomous Soft Robots Part I addresses soft mechanisms biological mechanisms and soft manipulation locomotion In Part II the basics of polymer biological materials flexible stretchable sensors and soft actuators are discussed from a materials science standpoint In turn Part III focuses on modeling control of continuum bodies material intelligence and information processing using soft body dynamics In addition the latest research results and cutting edge research are highlighted throughout the book Written

by a team of researchers from highly diverse fields the work offers a valuable textbook or technical guide for all students engineers and researchers who are interested in soft robotics

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