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Shape Memory Microactuators

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Marian Hörsting



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Development of Microactuators Based on the Magnetic Shape Memory Effect Yeduru, Srinivasa Reddy, 2013-12-10 The giant magneto strain effect in Ni Mn Ga alloys is particularly attractive for actuator applications Two different approaches are being pursued to develop MSM microactuators To observe large deflections of Ni Mn Ga microactuators the material should be exhibiting low twinning stress and large magnetic anisotropy In addition design rules and boundary conditions for operating the Ni Mn Ga actuator material are having significant importance for evolution of performance characteristics

Shape Memory Alloy Microactuators, 2004
Thin Film Shape Memory Alloys Shuichi Miyazaki, Yong Qing Fu, Wei Min Huang, 2009-09-03 The first dedicated book describing the properties preparation characterization and device applications of TiNi based shape memory alloys

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 *Thermomechanical Modeling of Shape Memory Alloy-based Microactuators*

Marian Hörsting,2022 *MEMS Materials and Processes Handbook* Reza Ghodssi,Pinyen Lin,2011-03-18 MEMs Materials and Processes Handbook is a comprehensive reference for researchers searching for new materials properties of known materials or specific processes available for MEMS fabrication The content is separated into distinct sections on Materials and Processes The extensive Material Selection Guide and a Material Database guides the reader through the selection of appropriate materials for the required task at hand The Processes section of the book is organized as a catalog of various microfabrication processes each with a brief introduction to the technology as well as examples of common uses in MEMs

IUTAM Symposium on Mechanics of Martensitic Phase Transformation in Solids Qing-Ping Sun,2013-03-14 Phase transition phenomena in solids are of vital interest to physicists materials scientists and engineers who need to understand and model the mechanical behavior of solids during various kinds of phase transformations This volume is a collection of 29 written contributions by distinguished invited speakers from 14 countries to the IUTAM Symposium on Mechanics of Martensitic Phase Transformation in Solids the first IUTAM Symposium focusing on this topic It contains basic theoretical and experimental aspects of the recent advances in the mechanics research of martensitic phase transformations The main topics include microstructure and interfaces material instability and its propagation micromechanics approaches interaction between plasticity and phase transformation phase transformation in thin films single and polycrystalline shape memory alloys shape memory polymers TRIP steels etc Due to the multidisciplinary nature of the research covered this volume will be of interest to researchers graduate students and engineers in the field of theoretical and applied mechanics as well as materials science and technology **Meso- to Micro- Actuators** Alberto Borboni,2008-05-05 Exploring the design and use of micro and meso actuators this book begins with theory and a general synopsis of the state of the art in theoretical research It discusses how to employ modern approaches in research and design activity then presents a systematic list of already available products and details their potential for use Design possib

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