

PRECISION
MACHINERY
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Volume 2

ACTUATORS FOR CONTROL

Edited by

Hiroyasu Funakubo



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The CRC Handbook of Mechanical Engineering D. Yogi Goswami, 2004-09-29 The second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering

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Srijan Bhattacharya, 2022-05-01 This book focuses on electro active polymer material known as Ionic Polymer Metal Composite IPMC having unique applicability as sensor and actuator which finds extensive use in various domain of engineering and science research Apart from fundamentals of the IPMC concept various applications are covered extensively across the chapters including space underwater and nanoscale including manufacturing processes Dedicated chapters are included for robotics and biomedical applications and possible research gaps Future research perspectives for IPMC are also discussed Features Covers principle of Ionic Polymer Metal Composite IPMC manufacturing processes applications and future possibilities in a systematic manner Highlights IPMC practical applicability in biomedical engineering domain Explores Single walled carbon nanotubes SWNT based IPMC soft actuators Discusses IPMC applications in underwater areas Includes IPMC application in robotics focusing on special compliant mechanism This book is aimed toward researchers graduate students and professionals in materials and mechanical engineering robotics mechatronics biomedical engineering and physics

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