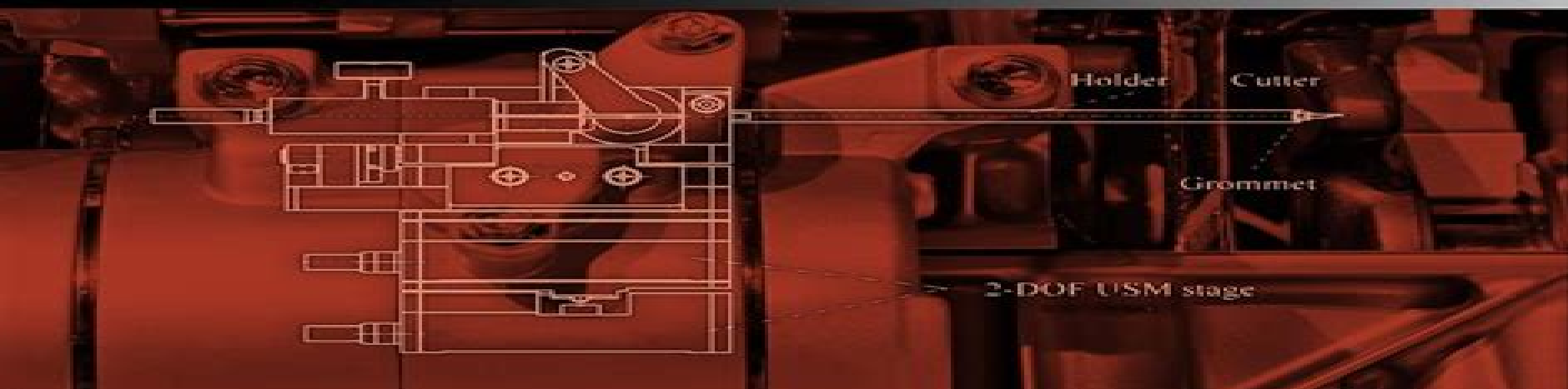


# Modeling and Control of Precision Actuators




**Tan Kok Kiong • Huang Sunan**



# Modeling And Control Of Precision Actuators

**B.F. Spencer Jr., M. Tomizuka, C.B.  
Yun, W.M. Chen, R.W. Chen**



## **Modeling And Control Of Precision Actuators:**

**Modeling and Control of Precision Actuators** Tan Kok Kiong, Huang Sunan, 2013-11-14 Modeling and Control of Precision Actuators explores new technologies that can ultimately be applied in a myriad of industries It covers dynamical analysis of precise actuators and strategies of design for various control applications The book addresses four main schemes modeling and control of precise actuators nonlinear control of precise actuators including sliding mode control and neural network feedback control fault detection and fault tolerant control and advanced air bearing control It covers application issues in the modeling and control of precise actuators providing several interesting case studies for more application oriented readers Introduces the driving forces behind precise actuators Describes nonlinear dynamics of precise actuators and their mathematical forms including hysteresis creep friction and force ripples Presents the control strategies for precise actuators based on Preisach model as well as creep dynamics Develops relay feedback techniques for identifying nonlinearities such as friction and force ripples Discusses a MPC approach based on piecewise affine models which emulate the frictional effects in the precise actuator Covers the concepts of air bearing stages with the corresponding control method Provides a set of schemes suitable for fault detection and accommodation control of mechanical systems Emphasizing design theory and control strategies the book includes simulation and practical examples for each chapter covers precise actuators such as piezo motors coil motors air bearing motors and linear motors discusses integration among different technologies and includes three case studies in real projects The book concludes by linking design methods and their applications emphasizing the key issues involved and how to implement the precision motion control tasks in a practical system It provides a concise and comprehensive source of the state of the art developments and results for modeling and control of precise actuators

Modeling and Control of Precision Actuators Tan Kok Kiong, Huang Sunan, 2018-10-08 Modeling and Control of Precision Actuators explores new technologies that can ultimately be applied in a myriad of industries It covers dynamical analysis of precise actuators and strategies of design for various control applications The book addresses four main schemes modeling and control of precise actuators nonlinear control of precise actuators including sliding mode control and neural network feedback control fault detection and fault tolerant control and advanced air bearing control It covers application issues in the modeling and control of precise actuators providing several interesting case studies for more application oriented readers Introduces the driving forces behind precise actuators Describes nonlinear dynamics of precise actuators and their mathematical forms including hysteresis creep friction and force ripples Presents the control strategies for precise actuators based on Preisach model as well as creep dynamics Develops relay feedback techniques for identifying nonlinearities such as friction and force ripples Discusses a MPC approach based on piecewise affine models which emulate the frictional effects in the precise actuator Covers the concepts of air bearing stages with the corresponding control method Provides a set of schemes suitable for fault detection and accommodation control of mechanical systems Emphasizing design

theory and control strategies the book includes simulation and practical examples for each chapter covers precise actuators such as piezo motors coil motors air bearing motors and linear motors discusses integration among different technologies and includes three case studies in real projects The book concludes by linking design methods and their applications emphasizing the key issues involved and how to implement the precision motion control tasks in a practical system It provides a concise and comprehensive source of the state of the art developments and results for modeling and control of precise actuators

**Actuators and Their Applications** Inamuddin,Rajender Boddula,Abdullah M. Asiri,2020-04-28 As demand has increased for new types of equipment that are more suited to the ever evolving world of industry demand for both new and traditional types of actuators has soared From automotive and aeronautical to biomedical and robotics engineers are constantly developing actuating devices that are adapted to their particular needs in their particular field and actuators are used in almost every field of engineering that there is This volume not only lays out the fundamentals of actuators such as how they operate the different kinds and their various applications but it also informs the engineer or student about the new actuators that are being developed and the state of the art of actuators Edited and written by highly experienced and well respected engineers with a deep understanding of their subject there is no other volume on actuators that is more current or comprehensive Whether as a guide for the latest innovations in actuators a refresher reference work for the veteran engineer or an introductory text for the engineering student this is a must have for any engineer s or university s library Covering the theory and the practical applications this breakthrough volume is a one stop shop for any engineer or student interested in actuators

*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

**Ionic Polymer Metal Composites (IPMCs)** Mohsen Shahinpoor,2016 A comprehensive resource on ionic polymer metal composites IPMCs edited by the leading authority on the subject

*Introduction to Precision Machine Design*

*and Error Assessment* Samir Mekid, 2008-12-23 While ultra precision machines are now achieving sub nanometer accuracy unique challenges continue to arise due to their tight specifications Written to meet the growing needs of mechanical engineers and other professionals to understand these specialized design process issues Introduction to Precision Machine Design and Error Assessment places *Intelligent Robotics and Applications* Xuguang Lan, Xuesong Mei, Caigui Jiang, Fei Zhao, Zhiqiang Tian, 2025-02-04 The 10 volume set LNAI 15201 15210 constitutes the proceedings of the 17th International Conference on Intelligent Robotics and Applications ICIRA 2024 which took place in Xi an China during July 31 August 2 2024 The 321 full papers included in these proceedings were carefully reviewed and selected from 489 submissions They were organized in topical sections as follows Part I Innovative Design and Performance Evaluation of Robot Mechanisms Part II Robot Perception and Machine Learning Cognitive Intelligence and Security Control for Multi domain Unmanned Vehicle Systems Part III Emerging Techniques for Intelligent Robots in Unstructured Environment Soft Actuators and Sensors and Advanced Intelligent and Flexible Sensor Technologies for Robotics Part IV Optimization and Intelligent Control of Underactuated Robotic Systems and Technology and application of modular robots Part V Advanced actuation and intelligent control in medical robotics Advancements in Machine Vision for Enhancing Human Robot Interaction and Hybrid Decision making and Control for Intelligent Robots Part VI Advances in Marine Robotics Visual Linguistic Affective Agents Hybrid augmented Agents for Robotics and Wearable Robots for Assistance Augmentation and Rehabilitation of human movements Part VII Integrating World Models for Enhanced Robotic Autonomy Advanced Sensing and Control Technologies for Intelligent Human Robot Interaction and Mini Invasive Robotics for In Situ Manipulation Part VIII Robot Skill Learning and Transfer Human Robot Dynamic System Learning Modelling and Control AI Driven Smart Industrial Systems and Natural Interaction and Coordinated Collaboration of Robots in Dynamic Unstructured Environments Part IX Robotics in Cooperative Manipulation MultiSensor Fusion and Multi Robot Systems Human machine Co adaptive Interface Brain inspired intelligence for robotics Planning control and application of bionic novel concept robots and Robust Perception for Safe Driving Part X AI Robot Technology for Healthcare as a Service Computational Neuroscience and Cognitive Models for Adaptive Human Robot Interactions Dynamics and Perception of Human Robot Hybrid Systems and Robotics for Rehabilitation Innovations Challenges and Future Directions **Precision Motion Systems** Jian Liang, Bindi You, Deqing Huang, Si-Lu Chen, Lei Liu, 2019-05-30 Precision Motion Systems Modeling Control and Applications presents basic dynamics and the control knowledge needed for the daily challenges of researchers and professionals working in the field The book explains accurate dynamics and control algorithms along with experimental validation of precision systems in industrial medical airborne and spaceborne applications By using the proposed experimental designs readers will be able to make further developments and validations Presents accurate dynamics and control algorithms in industrial medical airborne and spaceborne applications Explains basic dynamics and control knowledge such as Laplace transformations and stability analysis Teaches how to design

develop and control typical precision systems      Autonomous Positioning of Piezoactuated Mechanism for Biological Cell Puncture Mingyang Xie, Shengdong Yu, 2023-06-02 Autonomous Positioning of Piezoactuated Mechanism for Biological Cell Puncture gives a systematic and almost self contained description of the many facets of advanced design optimization modeling system identification and advanced control techniques for positioning of the cell puncture mechanism with a piezoelectric actuator in micro nanorobotics systems To achieve biomedical applications reliability design modeling and precision control are essential for developing engineering systems With the advances in mechanical design dynamic modeling system identification and control techniques it is possible to expand the advancements in reliability design precision control and quick actuation of micro nanomanipulation systems to the robot s applications at the micro and nanoscales especially for biomedical applications This book unifies existing and emerging techniques concerning advanced design modeling and advanced control methodologies in micropuncture of biological cells using piezoelectric actuators with their practical biomedical applications The book is an essential resource for researchers within robotics mechatronics biomedical engineering and automatic control society including both academic and industrial parts KEY FEATURES Provides a series of latest results in including but not limited to design modeling and control of micro nanomanipulation systems utilizing piezoelectric actuators Gives recent advances of theory technological aspects and applications of advanced modeling control and actuation methodologies in cell engineering applications Presents simulation and experimental results to reflect the micro nano manipulation practice and validate the performances of the developed design analysis and synthesis approaches      Neuro-Fuzzy Control of Industrial Systems with Actuator Nonlinearities Frank L. Lewis, Javier Campos, Rastko Selmic, 2002-01-01 Rigorous stability proofs are further verified by computer simulations and appendices contain the computer code needed to build intelligent controllers for real time applications Neural networks capture the parallel processing and learning capabilities of biological nervous systems and fuzzy logic captures the decision making capabilities of human linguistics and cognitive systems      *Transfer Matrix Method for Multibody Systems* Xiaoting Rui, Guoping Wang, Jianshu Zhang, 2018-11-29 TRANSFER MATRIX METHOD FOR MULTIBODY SYSTEMS THEORY AND APPLICATIONS Xiaoting Rui Guoping Wang and Jianshu Zhang Nanjing University of Science and Technology China Featuring a new method of multibody system dynamics this book introduces the transfer matrix method systematically for the first time First developed by the lead author and his research team this method has found numerous engineering and technological applications Readers are first introduced to fundamental concepts like the body dynamics equation augmented operator and augmented eigenvector before going in depth into precision analysis and computations of eigenvalue problems as well as dynamic responses The book also covers a combination of mixed methods and practical applications in multiple rocket launch systems self propelled artillery as well as launch dynamics of on ship weaponry Comprehensively introduces a new method of analyzing multibody dynamics for engineers Provides a logical development of the transfer matrix method as applied to the

dynamics of multibody systems that consist of interconnected bodies Features varied applications in weaponry aeronautics astronautics vehicles and robotics Written by an internationally renowned author and research team with many years experience in multibody systems *Transfer Matrix Method of Multibody System and Its Applications* is an advanced level text for researchers and engineers in mechanical system dynamics It is a comprehensive reference for advanced students and researchers in the related fields of aerospace vehicle robotics and weaponry engineering *Design, Modeling and Experiments of 3-DOF Electromagnetic Spherical Actuators* Liang Yan, I-Ming Chen, Chee Kian Lim, Guilin Yang, Kok-Meng Lee, 2011-06-06 A spherical actuator is a novel electric device that can achieve 2 3 DOF rotational motions in a single joint with electric power input It has advantages such as compact structure low mass moment of inertia fast response and non singularities within the workspace It has promising applications in robotics automobile manufacturing medicine and aerospace industry This is the first monograph that introduces the research on spherical actuators systematically It broadens the scope of actuators from conventional single axis to multi axis which will help both beginners and researchers to enhance their knowledge on electromagnetic actuators Generic analytic modeling methods for magnetic field and torque output are developed which can be applied to the development of other electromagnetic actuators A parametric design methodology that allows fast analysis and design of spherical actuators for various applications is proposed A novel non contact high precision 3 DOF spherical motion sensing methodology is developed and evaluated with experiments which shows that it can achieve one order of magnitude higher precision than conventional methods The technologies of nondimensionalization and normalization are introduced into magnetic field analysis the first time and a benchmark database is established for the reference of other researches on spherical actuators *Digital Manufacturing & Automation III* Yong Hong Tan, 2012-07-26 Selected peer reviewed papers from the 3rd International Conference on Digital Manufacturing Automation ICDMA 2012 August 1 2 2012 Guangxi China *Signal and Information Processing, Networking and Computers* Yue Wang, Yuyang Liu, Jiaqi Zou, Mengyao Huo, 2023-02-23 This book collects selected papers from the 10th Conference on Signal and Information Processing Networking and Computers held in Xi Ning China held in July 2022 The book focuses on the current works of information theory communication system computer science aerospace technologies and big data and other related technologies People from both academia and industry of this field can contribute and find their interests from the book *Future Power Network and Smart Energy Systems, Volume 2* Rahul Sharma, Amit Kumar, Anmol R. Saxena, 2025-09-26 This book features high quality peer reviewed papers from the International Conference on Future Power Network and Smart Energy Systems Issues and Challenges FPNSSES 2023 Organized by the Department of Electrical Engineering at the National Institute of Technology Kurukshetra it includes contributions from academicians technologists entrepreneurs and research scholars The content is designed to benefit engineers students and researchers working in the fields of power networks and smart energy systems *CIRP Annals* International Institution for Production Engineering Research, 1993 **Adaptive**

**Structural Systems with Piezoelectric Transducer Circuitry** Kon-Well Wang, Jiong Tang, 2009-04-03 Adaptive Structural Systems with Piezoelectric Transducer Circuitry provides a comprehensive discussion on the integration of piezoelectric transducers with electrical circuitry for the development and enhancement of adaptive structural systems. Covering a wide range of interdisciplinary research, this monograph presents a paradigm of taking full advantage of the two-way electro-mechanical coupling characteristics of piezoelectric transducers for structural control and identification in adaptive structural systems. Presenting descriptions of algorithm development, theoretical analysis, and experimental investigation, engineers and researchers alike will find this a valuable reference.

**World Forum on Smart Materials and Smart Structures Technology** B.F. Spencer Jr., M. Tomizuka, C.B. Yun, W.M. Chen, R.W. Chen, 2008-06-23 Research in smart materials and structures seeks to apply multifunctional capabilities of new and existing materials to develop structures and systems that are capable of self-sensing and monitoring, self-diagnosis and prognosis with intelligence, self-healing and repair, and adaptive response to prevent loss of human life and catastrophe, to minimize maintenance and life cycle costs, and to prolong service life. This book provides the critical knowledge and technological bases required for meeting one of the ultimate engineering challenges: the design and construction of smart structures and systems.

**Piezoelectric MEMS** Ulrich Schmid, Michael Schneider, 2018-07-10 This book is a printed edition of the Special Issue Piezoelectric MEMS that was published in Micromachines.

**Technology for Large Space Systems**, 1987



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