

Micky Rakotondrabe *Editor*

Smart Materials-Based Actuators at the Micro/Nano-Scale

Characterization, Control, and Applications

Smart Materials-Based Actuators at the Micro/Nano-Scale: Characterization, Control, and Applications gives a state of the art of emerging techniques to the characterization and control of actuators based on smart materials working at the micro/nano scale. The book aims to characterize some commonly used structures based on piezoelectric and electroactive polymeric actuators and also focuses on various and emerging techniques employed to control them. This book also includes two of the most emerging topics and applications: nanorobotics and cells micro/nano-manipulation.

This book:

- Provides both theoretical and experimental results.
- Contains complete information from characterization, modeling, identification, control to final applications for researchers and engineers that would like to model, characterize, control and apply their own micro/nano-systems
- Discusses applications such as microrobotics and their control, design and fabrication of microsystems, microassembly and its automation, nanorobotics and their characterization

Smart Materials-Based Actuators at the Micro/Nano-Scale: Characterization, Control, and Applications is ideal for industry professionals, researchers, and undergraduate, Master's or Ph.D. students interested in the characterization and control of actuators at the micro/nano scale.

Engineering

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 Springer

Table of contents

Chap1	Introduction: smart materials as essential base for actuators in micro/nanopositioning.....	1
	<i>Micky RAKOTONDRABE, Mohammad AL JANAIDEH, Alex BIENAIMÉ and Qingsong XU</i>	
	1 Introduction	
	2 Why using smart materials in micro/nano positioning	
	3 Basics on piezoelectric materials	
	3.1 Microscopical principle	
	3.2 Macroscopical principle and equations	
	3.3 Piezoelectric materials	
	4 Gains obtained with piezoelectric materials	
	5 Some problems encountered when using smart materials	
	5.1 Background	
	5.2 Hysteresis models	
	5.2.1. The Preisach model	
	5.2.2. The Prandtl-Ishlinskii model	
	5.3 Hysteresis compensation	
	5.3.1. Model-based control methods	
	5.3.2. Inverse-based control methods	
	6 Conclusion	
Chap2	Characterization and dynamics of polymer microactuators.....	15
	<i>Beatriz LÓPEZ-WALLE and Edgar REYES-MELO</i>	
	1 Introduction	
	2 Synthesis of the magnetic hybrid material	
	2.1 The polymer matrix or Na-CMC	
	2.2 In-situ synthesis of the magnetic hybrid material	
	3 Characterization of the magnetic hybrid material	
	3.1 Morphology and structure of the magnetic hybrid material	
	3.2 Magnetic properties of magnetic hybrid materials	
	4 Actuation properties of the magnetic hybrid material	
	4.1 Basic theory	
	4.2 Experimental actuation response	
	4.3 Finite element simulation of actuation dynamics	

	5	Conclusion	
Chap3		Design of piezoelectric actuators with guaranteed performances using the performances inclusion theorem and interval tools.....	42
		Micky RAKOTONDRABE and Sofiane KHADRAOUI	
	1	Introduction	
	2	Preliminaries on intervals	
		2.1 Definition	
		2.2 Operations on intervals	
		2.3 Interval systems	
		2.4 The performances inclusion systems (PIT) [Rakotondrabe, ACC11]	
	3	Piezoelectric cantilevered actuators and their modeling	
		3.1 Presentation of a piezoelectric cantilevered actuator	
		3.2 Static model	
		3.3 Dynamic model	
		3.4 Equivalent parametric model	
	4	Design of a unimorph piezoelectric actuator by using the PIT	
		4.1 Specifications	
		4.2 Problem formulation	
		4.3 Solution computation via the SIVIA algorithm	
		4.4 Experimental validation	
		4.4.1. Materials	
		4.4.2. Interval reference model	
		4.4.3. Unimorph sizes computation	
		4.4.4. Fabrication of the unimorph piezocantilever and experimental verifications	
	5	Conclusion	
Chap4		Modeling and robust H_∞ control of a nonlinear and oscillating 2-dof multimorph cantilevered piezoelectric actuator.....	62
		Micky RAKOTONDRABE	
	1	Introduction	
	2	Presentation of the 2-dof cantilevered piezoelectric actuator	
	3	Characterization	
		3.1 Static characterization: observation of the hysteresis	
		3.2 Step responses characterization	
		3.3 Creep characterization	

- 4 Modeling and identification
 - 4.1 General formulation
 - 4.2 Modeling and identification of the statical part
 - 4.2.1. The quadrilateral approximation
 - 4.2.2. The quadrilateral approximation applied to the 2-DOF piezoelectric actuator
 - 4.3 Modeling and identification of the dynamics part
 - 4.4 The final model
- 5 Robust standard H_∞ control technique
 - 5.1 Principle scheme and specifications
 - 5.1.1. Specifications for the y-axis
 - 5.1.2. Specifications for the z-axis
 - 5.2 Standard form and the standard H_∞ problem
 - 5.3 Gabarits and weighting functions
 - 5.4 Calculation of the controllers
 - 5.5 Controllers implementation
- 6 Conclusion

Chap5	A hybrid control approach to nanopositioning.....	91
	<i>Tomas TUMA, Abu SEBASTIAN, John LYGEROS and Angeliki PANTAZI</i>	

- 1 Introduction
- 2 Feedback control for nanopositioning
 - 2.1 Linear feedback control
 - 2.2 Feedback control of repetitive reference signals
 - 2.3 Feedforward control and reference signal shaping
 - 2.4 Hybrid feedback control
- 3 Impulsive control
 - 3.1 Impulsive state multiplication
 - 3.2 Stability
- 4 Impulsive control for feedback systems
 - 4.1 Tracking of piecewise constant signals
 - 4.2 Tracking of piecewise affine signals
 - 4.3 Feedback control with multiple control objectives
- 5 Relations between impulsive control and signal transformation approach
 - 5.1 Signal transformation approach
 - 5.2 ISM and multiplicative signal transformation
 - 5.3 Tracking of triangular waveforms
 - 5.4 Transient performance of STA
- 6 Experiments
 - 6.1 Impulsive control for tracking piecewise affine

	signals	
	6.2 Sensitivity to measurement noise	
	6.3 Multiobjective impulsive control: Tracking and disturbance rejection	
	6.4 Transient performance of STA and impulsive control	
7	Conclusion	
Chap6	Interval modeling and robust feedback control of piezoelectric-based microactuators.....	123
	<i>Sofiane KHADRAOUI, Micky RAKOTONDRABE and Philippe LUTZ</i>	
	1 Introduction	
	2 Preliminaries on intervals	
	2.1 Definition	
	2.2 Operations on intervals	
	2.3 Interval systems	
	2.4 The performances inclusion systems (PIT)	
	[Rakotondrabe, ACC11]	
	3 PIT-based Robust Control Design	
	4 Design of a robust controller by combining standard H_∞ and interval tools	
	5 A posteriori performances analysis using standard H_∞ and interval tools combined	
	6 Application to piezocantilevers and experimental results	
	6.1 Interval model derivation	
	6.2 Specifications and controller structure	
	6.3 PI controller computation using PIT approach	
	6.4 PI controller computation by combining the H_∞ technique with interval analysis	
	7 Conclusion	
Chap7	Kalman filtering and state-feedback control of a nonlinear piezoelectric cantilevered actuator.....	150
	<i>Micky RAKOTONDRABE, Juan-Antonio ESCARENO, Didace HABINEZA and Sergio LESCANO</i>	
	1 Introduction	
	2 Presentation of the setup to be controlled	
	3 Linearization by feedforward control of the piezoelectric actuator	

	3.1 Hysteresis characterization	
	3.2 Hysteresis modeling	
	3.3 Feedforward control	
	3.4 The new system	
4	Kalman filtering applied to the linearized piezoelectric cantilever	
	4.1 The linear Kalman filtering (LKF)	
	4.2 LKF implementation	
5	State-feedback control with integral action	
	5.1 Remind of the new system to be controlled and principle scheme	
	5.2 Scheme of the closed-loop	
	5.3 Equations of the closed-loop	
	5.4 Calculations of the controller gains	
	5.5 Controller implementation	
6	Conclusion	
Chap8	Intelligent Hysteresis Modeling and Control of Piezoelectric Actuators.....	172
	<i>Qingsong XU</i>	
	1 Introduction	
	2 Modeling of Dynamics with Hysteresis Behavior	
	3 Hysteresis Modeling Using LSSVM	
	3.1 Regression Model Development	
	3.2 Modeling with LSSVM	
	4 Experimental Investigations on Hysteresis Modeling	
	4.1 Experimental Setup	
	4.2 Bouc-Wen Model Results	
	4.2.1. Bouc-Wen Model Identification	
	4.2.2. Modeling Results	
	4.2.2. Generalization Study	
	4.3 LSSVM Model Results	
	4.3.1. Dynamic Model Identification	
	4.3.2. LSSVM Modeling and Testing	
	5 Feedforward Hysteresis Compensation and Results	
	6 Conclusion	
Chap9	Compensation of Rate-Dependent Hysteresis in a Piezomicropositioning Actuator.....	187
	<i>Mohammad AL JANAIDEH</i>	

- 1 Introduction
- 2 Background
- 3 Rate-Dependent Prandtl-Ishlinskii Model And Its Inverse
 - 3.1 The Rate-Dependent Prandtl-Ishlinskii Model
 - 3.2 Inverse Rate-Dependent Prandtl-Ishlinskii Model
 - 3.3 The Dynamic Threshold
 - 3.4 Numerical Implementation
 - 3.5 Example
- 4 Experimental Results and Hysteresis Modeling
 - 4.1 Experimental Results
 - 4.2 Parameters Identification
 - 4.3 Hysteresis Modeling
- 5 Feedforward Compensation of Rate-Dependent and Rate-Independent Hysteresis Nonlinearities
 - 5.1 The Inverse Compensator
 - 5.2 Compensation of Rate-Dependent Hysteresis
 - 5.3 Compensation of Hysteresis Nonlinearities at Low Excitation Frequencies
 - 5.4 Triangular Waveform
 - 5.5 Major and Minor Hysteresis Loops
- 6 Discussions
- 7 Conclusions

Chap10 Feedforward control of flexible and nonlinear piezoelectric actuators.....	211
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Micky RAKOTONDRABE

- 1 Introduction
- 2 Hysteresis compensation using the Bouc-Wen approach and the inverse multiplicative structure
 - 2.1 Characterization
 - 2.2 Modeling and identification
 - 2.3 Compensation
- 3 Creep compensation using a linear model and the inverse multiplicative structure
 - 3.1 Characterization
 - 3.2 Modeling and identification
 - 3.3 Compensation
- 4 Vibration compensation using an input shaping technique
 - 4.1 Characterization
 - 4.2 Modeling and identification
 - 4.3 Compensation by using an input shaping technique
- 5 Conclusion

Chap11	Micro/nanorobotic manufacturing Thin-film NEMS force sensor.	233
	<i>Gilgueng HWANG and Hideki HASHIMOTO</i>	
	1 Introduction	
	2 HNB force sensors	
	2.1 Large Range Force Sensors	
	2.2 Piezoresistive Helical Nanobelt Force Sensors	
	2.3 Working Principle of HNB Force Sensors	
	3 Force sensor assembly	
	3.1 Interconnection layer fabrication	
	3.2 External Force Generating System	
	3.3 External Field-assisted Assembly	
	3.4 Force Sensor Assembly	
	4 Characterizations	
	4.1 Giant Piezoresistivity of InGaAs/GaAs HNBS	
	4.2 Force Transduction of Assembled HNB Force Sensor	
	5 Conclusions	
Chap12	Human Sperm Tracking, Analysis, and Manipulation.....	254
	<i>Jun LIU, Clement LEUNG, Zhe LU and Yu SUN</i>	
	1 Introduction	
	2 Sperm tracking	
	2.1 Sperm Head Tracking	
	2.2 Sperm Tail Tracking	
	3 Sperm analysis	
	3.1 Sperm Motility Analysis	
	3.2 Sperm Morphology Analysis	
	3.3 Sperm DNA Integrity Analysis	
	4 Sperm manipulation	
	4.1 Sperm Immobilization	
	4.1 Sperm Aspiration and Positioning Inside Micropipette	
	5 Conclusion	
	END.....	268