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Autore	Luo Ying <1973->
Titolo	Fractional order motion controls [[electronic resource] /] / Ying Luo, YangQuan Chen
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ISBN	1-118-38771-6 1-118-38772-4 1-283-65633-7 1-118-38770-8
Descrizione fisica	1 online resource (472 p.)
Altri autori (Persone)	ChenYangquan <1966->
Disciplina	629.8
Soggetti	Motion control devices Incremental motion control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fractional Order Motion Controls; Contents; Foreword; Preface; Acknowledgments; Acronyms; PART I FUNDAMENTALS OF FRACTIONAL ORDER CONTROLS; 1 Introduction; 1.1 Fractional Calculus; 1.1.1 Definitions and Properties; 1.1.2 Laplace Transform; 1.1.3 Fractional Order Dynamic Systems; 1.1.4 Stability of LTI Fractional Order Systems; 1.2 Fractional Order Controls; 1.2.1 Why Fractional Order Control?; 1.2.2 Basic Fractional Order Control Actions; 1.2.3 A Historical Review of Fractional Order Controls; 1.3 Fractional Order Motion Controls; 1.4 Contributions; 1.5 Organization PART II FRACTIONAL ORDER VELOCITY CONTROLS2 Fractional Order PI Controller Designs for Velocity Systems; 2.1 Introduction; 2.2 The FOPTD System and Three Controllers Considered; 2.3 Design Specifications; 2.4 Fractional Order PI and [PI] Controller Designs; 2.4.1 Integer Order PID Controller Design; 2.4.2 Fractional Order PI Controller Design; 2.4.3 Fractional Order [PI] Controller Design; 2.5 Simulation; 2.6 Chapter Summary; 3 Tuning Fractional Order PI Controllers for Fractional Order Velocity Systems with Experimental Validation; 3.1 Introduction

3.2 Three Controllers to be Designed and Tuning Specifications
 3.3 Tuning Three Controllers for FOVS; 3.4 Illustrative Examples and Design Procedure Summaries; 3.4.1 Fractional Order [PI] Controller Design Procedures; 3.4.2 Fractional Order PI Controller Design Procedures; 3.4.3 Integer Order PID Controller Design Procedures; 3.5 Simulation Illustration; 3.5.1 Case-1s Simulation Tests for the Designed FOPI and FO[PI] Controllers with $\omega_c = 10$ rad/s and $\omega_m = 50$?; 3.5.2 Case-2s Simulation Tests for the Designed IOPI and FOPI and FO[PI] Controllers with $\omega_c = 15$ rad/s and $\omega_m = 65$?
 3.6 Experimental Validation
 3.6.1 Experimental Setup; 3.6.2 HIL Emulation of the FOVS; 3.6.3 Experimental Results; 3.7 Chapter Summary; 4 Relay Feedback Tuning of Robust PID Controllers; 4.1 Introduction; 4.2 Slope Adjustment of the Phase Bode Plot; 4.3 The New PID Controller Design Formulae; 4.4 Phase and Magnitude Measurement via Relay Feedback Tests; 4.5 Illustrative Examples; 4.5.1 High-order Plant P2(s); 4.5.2 Plant with an Integrator P5(s); 4.5.3 Plant with a Time Delay P6(s); 4.5.4 Plant with an Integrator and a Time Delay P7(s); 4.6 Chapter Summary
 5 Auto-Tuning of Fractional Order Controllers with Iso-Damping
 5.1 Introduction; 5.2 FOPI and FO[PI] Controller Design Formulae; 5.2.1 FOPI Controller Auto-Tuning; 5.2.2 FO[PI] Controller Auto-Tuning; 5.3 Measurements for Auto-Tuning; 5.4 Simulation Illustration; 5.4.1 High-Order Plant P2(s); 5.4.2 Plant with an Integrator P5(s); 5.4.3 Plant with a Time Delay P6(s); 5.5 Chapter Summary; PART III FRACTIONAL ORDER POSITION CONTROLS; 6 Fractional Order PD Controller Tuning for Position Systems; 6.1 Introduction; 6.2 Fractional Order PD Controller Design for Position Systems
 6.2.1 Integer Order PD Controller Design

Sommario/riassunto

Covering fractional order theory, simulation and experiments, this book explains how fractional order modelling and fractional order controller design compares favourably with traditional velocity and position control systems. The authors systematically compare the two approaches using applied fractional calculus. Stability theory in fractional order controllers design is also analysed. Presents material suitable for a variety of real-world applications, including hard disk drives, vehicular controls, robot control and micropositioners in DNA microarray analysis

2. Record Nr.	UNINA9910863157403321
Titolo	Business Performance and Financial Institutions in Europe : Business Models and Value Creation Across European Industries // edited by Alexandra Horobet, Persefoni Polychronidou, Anastasios Karasavoglou
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-57517-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIX, 163 p. 14 illus., 10 illus. in color.)
Collana	Contributions to Economics, , 2197-7178
Disciplina	658.0094
Soggetti	Financial services industry Management Macroeconomics Entrepreneurship New business enterprises Financial Services Macroeconomics and Monetary Economics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Evolution of airline business models: the case of pegasus Airlines -- Tendencies of trade in business services in visegrad countries -- Mapping economic in the european union: do ownership, industry and location matter? -- The driving forces of business R@D intensity in eastern european countries -- Competitiveness, profitability and R/D intensity: the case of the domestic pharmaceutical industry in greece -- MCDM approach for assessment of financial performance of serbian banks.
Sommario/riassunto	This book examines the business models, performance, and decision-making approaches employed by financial institutions in Central and Southeast Europe. The respective contributions cover a wide range of industries, including banking, pharmaceuticals, and airline business services, and present both theoretical and empirical studies that highlight economy-wide risks and opportunities for European companies. The book is divided into four parts, the first of which

provides a critical assessment of the competitiveness and performance of European companies, while the second examines decision-making approaches at financial institutions; the third and fourth parts address the macroeconomic risks and opportunities for business development in Europe. Intended for scholars, political decision-makers, and practitioners, the book offers new perspectives on Central and Southeast European financial and business research. .
