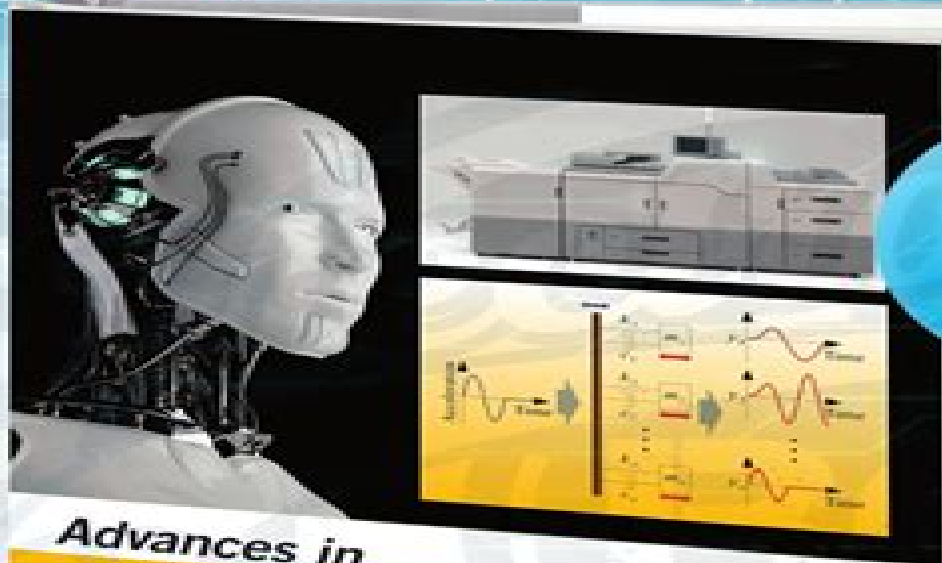




Advances in

High-Performance Motion Control of Mechatronic Systems

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Mitsuo Hirata
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Advances In High Performance Motion Control Of Mechatronic Systems

Yi-Tong Ma



Advances In High Performance Motion Control Of Mechatronic Systems:

Advances in High-Performance Motion Control of Mechatronic Systems Takashi Yamaguchi, Mitsuo Hirata, Chee Khiang Pang, 2017-12-19 Mechatronic systems are used in a range of consumer products from large scale braking systems in vehicular agents to small scale integrated sensors in mobile phones To keep pace in the competitive consumer electronics industry companies need to continuously improve servo evaluation and position control of these mechatronic systems *Advances in High Performance Motion Control of Mechatronic Systems* covers advanced control topics for mechatronic applications In particular the book examines control systems design for ultra fast and ultra precise positioning of mechanical actuators in mechatronic systems The book systematically describes motion control design methods for trajectory design sampled data precise positioning transient control using switching control and dual stage actuator control Each method is described in detail from theoretical aspects to examples of actual industry applications including hard disk drives optical disk drives galvano scanners personal mobility robots and more This helps readers better understand how to translate control theories and algorithms from theory to design and implementation in realistic engineering systems The book also identifies important research directions and advanced control techniques that may provide solutions for the next generation of high performance mechatronics Bridging research and industry this book presents state of the art control design methodologies that are widely applicable to industries such as manufacturing robotics home appliances automobiles printers and optical drives It guides readers toward more effective solutions for high performance mechatronic systems in their own products

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Micromechatronics Victor Giurgiutiu, Sergey Edward Lyshevski, 2016-04-19 Focusing on recent developments in engineering science enabling hardware advanced technologies and software Micromechatronics Modeling Analysis and Design with MATLAB Second Edition provides clear comprehensive coverage of mechatronic and electromechanical systems It applies cornerstone fundamentals to the design of electromechanical syst **Computational Intelligent Techniques in Mechatronics** Kolla Bhanu Prakash, Satish Kumar Peddapelli, Ivan C. K. Tam, Wai Lok Woo, Vishal Jain, 2024-10-22 This book set against the backdrop of huge advancements in artificial intelligence and machine learning within mechatronic systems serves as a comprehensive guide to navigating the intricacies of mechatronics and harnessing its transformative potential Mechatronics has been a revolutionary force in engineering and medical robotics over the past decade It will lead to a major industrial revolution and affect research in every field of engineering This book covers the basics of mechatronics computational intelligence approaches simulation and modeling concepts architectures nanotechnology real time monitoring and control different actuators and sensors The book explains clearly and comprehensively the engineering design process at

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