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Vinod K. Wadhawan

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research and human computer interaction in design as well as design for accessibility and extreme environments and many others The book places special emphasis on new technologies such as virtual reality state of the art methodologies in information design and human computer interfaces Based on the AHFE 2017 International Conference on Ergonomics in Design held on July 17 21 2017 in Los Angeles California USA the book offers a timely guide for both researchers and design practitioners including industrial designers human computer interaction and user experience researchers production engineers and applied psychologists Intelligent Envelopes for High-Performance Buildings Guedi Capeluto, Carlos Ernesto Ochoa, 2016-11-09 This book presents a series of significant methods and examples for the design of sustainable intelligent facades in a variety of contexts Emphasis is placed on how intelligence has been applied for successful energy saving efforts in the planning of building envelopes Readers will find essential information on the core principles involved in designing calculating and organizing intelligent facades according to the need for a new or retrofitted building Not only are different materials and technologies considered but also efficient ways to combine them according to user needs and other project specific constraints Illustrations tables and graphs accompany the text clarifying the concepts discussed Architects facade consultants and all those interested in and energy saving measures and improved indoor comfort will find this book useful not only as an introduction to the subject but also as a guide to achieving more responsive building methods Materials and Structures Haim Abramovich, 2016-09-12 Intelligent Materials and Structures provides exceptional insights into designing intelligent materials and structures for special applications in engineering The author introduces the fundamental materials science involved in research endeavors and simultaneously reviews the current state of the art of intelligent materials and structures Separate chapters are devoted to the thorough examination of theory and application of laminated composite materials Piezoelectricity Shape Memory Alloys Electro and Magnetorheological fluids as well as Magneto and Electrostrictive materials Each chapter contains numerous equations and figures describing theories models and behavior of the intelligent material discussed Special attention is paid to applications of intelligent materials to various structures in the aerospace and medical sector piezoelectric motors as well as piezoelectric and electromagnetic energy harvesting Contents Introduction to Intelligent Materials and Structures Laminated Composite Materials Piezoelectricity Shape Memory Alloys Electrorheological and Magnetorheological Fluids Magnetostrictive and Electrostrictive Materials Applications of Intelligent Materials in Structures Energy Harvesting using Intelligent Materials Index Robotic Systems for Handling and Assembly Daniel Schütz, Friedrich Wahl, 2010-11-30 Although parallel robots are known to offer many advantages with respect to accuracy dynamics and stiffness major breakthroughs in industrial applications have not yet taken place This is due to a knowledge gap preventing fast and precise execution of industrial handling and assembly tasks This book focuses on the design modeling and control of innovative parallel structures as well as the integration of novel machine elements Special attention is paid to the integration of active components into lightweight links and passive joints In addition new control concepts are introduced to minimize structural vibrations Although the optimization of robot systems itself allows a reduction of cycle times these can be further decreased by improved path planning robot programming and automated assembly planning concepts described by 25 contributions within this book The content of this volume is subdivided into four main parts dealing with Modeling and Design System Implementation Control and Programming as well as Adaptronics and Components This book is aimed at researchers and postgraduates working in the field of parallel robots as well as practicing engineers dealing with industrial robot development and robotic applications Actuators Hartmut Janocha, 2013-03-09 Authored by a team of acknowledged experts this book presents a multidisciplinary view of the state of the art in the field of actuators The goal of the book is to provide a comprehensive overview of the properties applications and potential applications of traditional and unconventional actuators together with their corresponding power electronics Special attention is paid to the objective assessment of competing actuator principles The book is written primarily for designers and engineers in research and development but will also be valuable as a textbook for students of automation engineering mechatronics and adaptronics

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