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Design Rules for Actuators in Active Mechanical Systems

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 Springer

Design Rules For Actuators In Active Mechanical Systems

VM Jensen

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Design Rules For Actuators In Active Mechanical Systems:

Design Rules for Actuators in Active Mechanical Systems Oriol Gomis-Bellmunt, Lucio Flavio Campanile, 2009-10-29

Design Rules for Actuators in Active Mechanical Systems deals with the formulation of model based design rules to be used in the conception of optimized mechatronic and adaptronic systems The book addresses the comparison of different actuator classes for given applications and offers answers to the following questions What is the relationship between actuator geometry and primary output quantities How scalable are actuators based on the same principle How are energetic output quantities work and power related to mechanical load and geometry How should actuators be designed and sized to obtain the best performance for the chosen actuator kind and for a given application Design Rules for Actuators in Active Mechanical Systems will be of use to industry professionals such as actuator and machine designers as well as to researchers and students of mechanical engineering mechatronics and electrical engineering

Frequency-Agile Antennas for Wireless Communications Aldo Petosa, 2013-11-01 Mobile data subscriptions are expected to more than double and mobile wireless traffic to increase by more than tenfold over the next few years Proliferation of smart phones tablets and other portable devices are placing greater demands for services such as web browsing global positioning video streaming and video telephony Many of the proposed solutions to deal with these demands will have a significant impact on antenna designs Antennas with frequency agility are considered a promising technology to help implement these new solutions This book provides readers with a sense of the capabilities of frequency agile antennas FAAs the widely diverse methods for achieving tunability the current achievable performance and the challenges still facing FAA designs This resource explores the many aspects of FAAs including an examination of the metrics used to evaluate their performance a review of the most commonly used antenna elements an in depth look at the wide variety of mechanisms for achieving tunability and a comprehensive survey of diverse examples of FAA designs The focus is on FAAs for wireless mobile communications with applications including handsets laptops wireless machine to machine communications as well as larger fixed designs such as cellular base station antennas

Introduction to the Mechanics of Space Robots Giancarlo Genta, 2011-10-27 Based on lecture notes on a space robotics course this book offers a pedagogical introduction to the mechanics of space robots After presenting an overview of the environments and conditions space robots have to work in the author discusses a variety of manipulatory devices robots may use to perform their tasks This is followed by a discussion of robot mobility in these environments and the various technical approaches The last two chapters are dedicated to actuators sensors and power systems used in space robots This book fills a gap in the space technology literature and will be useful for students and for those who have an interest in the broad and highly interdisciplinary field of space robotics and in particular in its mechanical aspects

Mechatronics in Medicine A Biomedical Engineering Approach Siamak Najarian, 2012 Comprehensive coverage of mechatronics in medical systems Mechatronics in Medicine A Biomedical Engineering Approach addresses this emerging

field focused on areas of medicine such as robotic surgery and smart surgical instruments design of artificial organs new medical imaging systems and novel diagnostic and therapeutic systems This pioneering work addresses the development of computer controlled mechanical devices for use in a wide variety of areas in biomedicine Mechatronics in Medicine A Biomedical Engineering Approach offers a basic background in mechatronics Covers multidisciplinary medical systems discusses design and operation of biomechatronics systems Includes details on state of the art technologies cutting edge coverage introduction to mechatronics sensing technology actuators and feedback sensors mechanisms and mechanical Devices processing and control Systems expert systems medical imaging applications of mechatronics in medicine medical case studies in mechatronics Provided by publisher *7th European Mechanics of Materials Conference on Adaptive Systems and Materials: Constitutive Materials and Hybrid Structures* Christian Lexcellent, Etienne Patoor, 2004 **Journal de physique**, 2004 *Design Principles and Methods for Aircraft Gas Turbine Engines*, 1999 The symposium dealt with design approaches for military aircraft propulsion systems to provide enhanced operational flexibility longer range better fuel efficiency and improved affordability All classes of gas turbines were addressed in nine sessions as follows Engine Design and Analysis Part I 5 papers Mechanical Systems 6 papers Controls 4 papers Combustors Augmentors 4 papers Compressor Systems Part I 5 papers Compressor Systems Part II 3 papers Turbines Part I 5 papers Turbines Part II 4 papers Engine Design and Analysis Part II 4 papers These proceedings also include a Technical Evaluation Report and a Keynote address published in French and English *International Aerospace Abstracts*, 1999 **Third International Conference on Vibrations in Rotating Machinery, 11-13 September 1984, University of York, Heslington, Yorkshire** Institution of Mechanical Engineers (Great Britain). Engineering Sciences Division, 1984 *Vertiflite*, 1998 *Verti-flite*, 1998 *Annual Index/abstracts of SAE Technical Papers*, 2005 *Miniaturized Systems with Micro-optics and Micromechanics*, 1998 **Proceedings of the ... IEEE International Symposium on Electronics and the Environment**, 2005 *Aeronautical Engineering*, 1993 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA *Smart Structures and Materials...*, 2000 **Proceedings of the ... Midwest Symposium on Circuits and Systems**, 1996 *Physics Briefs*, 1992 **Control Applications and Ergonomics in Agriculture 1998** N. Sigrimis, P.P. Groumpos, 1999 In this workshop an attempt was made to fuse the disciplines involved in the requirements specification design and implementation of control systems for the automation of agricultural systems The need to meet the demanding specifications for increasingly complex agricultural systems is being addressed by using increasingly sophisticated models and control algorithms In parallel the ever decreasing profit margins in the agricultural sector no longer permit agriculture to operate in the traditional manner but are forcing it to transform into a contemporary business with all the complexities that this implies The work environment is changing rapidly and humans are

moving to positions of supervision and management while automation and robotics are taking over many of the menial and tedious tasks Modern technological developments in industrial management and control are entering agriculture and transforming it rapidly into an industry Smaller agricultural systems are being linked to produce hierarchical large scale agricultural systems whose management and control demands high level intelligent decision support mechanisms Local and wide area networks provide the relevant agricultural and economic data and facts to central production management systems where decisions are made and subsequently transferred to remote locations for execution Agriculture which is a highly distributed operation is taking advantage of modern communications networks unifying remote locations into a virtual world Agriculture has been making significant steps in producing food and fibers of improved quality in a highly constrained economic environment Robust control of such a largely uncertain system demands that application domain experts work closely with systems analysts and control engineers to produce systems of higher autonomy and efficiency to meet today's global challenge Joint U.S./Japan Conference on Adaptive Structures ,1991

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