

Advances in Industrial Control

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Dynamics and Control of Mechanical Systems in Offshore Engineering

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Dynamics And Control Of Mechanical Systems

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Dynamics and Control of Mechanical Systems in Offshore Engineering Wei He, Shuzhi Sam Ge, Bernard Voon Ee How, Yoo Sang Choo, 2013-10-02

Dynamics and Control of Mechanical Systems in Offshore Engineering is a comprehensive treatment of marine mechanical systems MMS involved in processes of great importance such as oil drilling and mineral recovery Ranging from nonlinear dynamic modeling and stability analysis of flexible riser systems through advanced control design for an installation system with a single rigid payload attached by thrusters to robust adaptive control for mooring systems it is an authoritative reference on the dynamics and control of MMS Readers will gain not only a complete picture of MMS at the system level but also a better understanding of the technical considerations involved and solutions to problems that commonly arise from dealing with them The text provides a complete framework of dynamical analysis and control design for marine mechanical systems new results on the dynamical analysis of riser mooring and installation systems together with a general modeling method for a class of MMS a general method and strategy for realizing the control objectives of marine systems with guaranteed stability the effectiveness of which is illustrated by extensive numerical simulation and approximation based control schemes using neural networks for installation of subsea structures with attached thrusters in the presence of time varying environmental disturbances and parametric uncertainties Most of the results presented are analytical with repeatable design algorithms with proven closed loop stability and performance analysis of the proposed controllers is rigorous and detailed Dynamics and Control of Mechanical Systems in Offshore Engineering is

primarily intended for researchers and engineers in the system and control community but graduate students studying control and marine engineering will also find it a useful resource as will practitioners working on the design running or maintenance of offshore platforms

Dynamics and Control of Mechanical Systems Michael J. Enos, 1993 This book contains a collection of papers presented at the Fields Institute workshop The Falling Cat and Related Problems held in March 1992 The theme of the workshop was the application of methods from geometric mechanics and mathematical control theory to problems in the dynamics and control of freely rotating systems of coupled rigid bodies and related nonholonomic mechanical systems This book will prove useful in providing insight into this new and exciting area of research

Mechanical System Dynamics Friedrich Pfeiffer, 2008-09-27 Mechanics as a fundamental science in Physics and in Engineering deals with interactions of forces resulting in motion and deformation of material bodies Similar to other sciences Mechanics serves in the world of Physics and in that of Engineering in a different way in spite of many and increasing interdependencies Machines and mechanisms are for physicists tools for cognition and research for engineers they are the objectives of research according to a famous statement of the Frankfurt physicist and biologist Friedrich Dessauer Physicists apply machines to support their questions to Nature with the goal of new insights into our physical world Engineers apply physical knowledge to support the realization process of their ideas and their intuition Physics is an analytical Science searching for answers to questions concerning the world around us Engineering is a synthetic Science where the physical and mathematical fundamentals play the role of a kind of reinsurance with respect to a really functioning and efficiently operating machine Engineering is also an iterative Science resulting in typical long time evolutions of their products but also in terms of the relatively short time developments of improving an existing product or in developing a new one Every physical or mathematical Science has to face these properties by developing on their side new methods new practice proved algorithms up to new fundamentals adaptable to new technological developments This is as a matter of fact also true for the field of Mechanics

Dynamics of Controlled Mechanical Systems with Delayed Feedback H.Y. Hu, Z.H. Wang, 2013-03-09 Recent years have witnessed a rapid development of active control of various mechanical systems With increasingly strict requirements for control speed and system performance the unavoidable time delays in both controllers and actuators have become a serious problem For instance all digital controllers analogue anti aliasing and reconstruction filters exhibit a certain time delay during operation and the hydraulic actuators and human being interaction usually show even more significant time delays These time delays albeit very short in most cases often deteriorate the control performance or even cause the instability of the system because the actuators may feed energy at the moment when the system does not need it Thus the effect of time delays on the system performance has drawn much attention in the design of robots active vehicle suspensions active tendons for tall buildings as well as the controlled vibro impact systems On the other hand the properly designed delay control may improve the performance of dynamic systems For instance the delayed state feedback has found

its applications to the design of dynamic absorbers the linearization of nonlinear systems the control of chaotic oscillators etc Most controlled mechanical systems with time delays can be modeled as the dynamic systems described by a set of ordinary differential equations with time delays *Dynamics and Control of mechanical Systems Containing Closed Kinematic Chains, Ph.D. Thesis, Stanford University, 1997* K. J. Reckdahl, 1997 *IUTAM Symposium on Interaction between Dynamics and Control in Advanced Mechanical Systems* Dick Van Campen, 2011-09-28 During the last decades applications of dynamical analysis in advanced often nonlinear engineering systems have been evolved in a revolutionary way In this context one can think of applications in aerospace engineering like satellites in naval engineering like ship motion in mechanical engineering like rotating machinery vehicle systems robots and biomechanics and in civil engineering like earthquake dynamics and offshore technology One could continue with this list for a long time The application of advanced dynamics in the above fields has been possible due to the use of sophisticated computational techniques employing powerful concepts of nonlinear dynamics These concepts have been and are being developed in mathematics mechanics and physics It should be remarked that careful experimental studies are vitally needed to establish the real existence and observability of the predicted dynamical phenomena The interaction between nonlinear dynamics and nonlinear control in advanced engineering systems is becoming of increasing importance because of several reasons Firstly control strategies in nonlinear systems are used to obtain desired dynamic behaviour and improved reliability during operation Applications include power plant rotating machinery vehicle systems robotics etc Terms like motion control optimal control and adaptive control are used in this field of interest Since mechanical and electronic components are often necessary to realize the desired action in practice the engineers use the term mechatronics to indicate this field If the desired dynamic behaviour is achieved by changing design variables mostly called system parameters one can think of fields like control of chaos

PDE Modeling and Boundary Control for Flexible Mechanical System Zhijie Liu, Jinkun Liu, 2020-03-16 This book provides a comprehensive review of fundamental issues in the dynamical modeling and vibration control design for several flexible mechanical systems such as flexible satellites flexible aerial refueling hoses and flexible three dimensional manipulators Offering an authoritative reference guide to the dynamics and control of flexible mechanical systems it equips readers to solve a host of problems concerning these systems It provides not only a complete overview of flexible systems but also a better understanding of the technical levels involved The book is divided into ten chapters Chapters 1 and 2 lay the foundations while the remaining chapters explore several independent yet related topics in detail The book's final chapter presents conclusions and recommendations for future research Given its scope the book is intended for researchers graduate students and engineers whose work involves control systems flexible mechanical systems and related areas

Research Needs in Dynamic Systems and Control: Control of mechanical systems Herbert H. Richardson, Clayton C. Nelson, 1988

Vehicle Dynamics and Control Rajesh Rajamani, 2011-12-23 Vehicle Dynamics and Control provides a comprehensive coverage of

vehicle control systems and the dynamic models used in the development of these control systems The control system applications covered in the book include cruise control adaptive cruise control ABS automated lane keeping automated highway systems yaw stability control engine control passive active and semi active suspensions tire road friction coefficient estimation rollover prevention and hybrid electric vehicles In developing the dynamic model for each application an effort is made to both keep the model simple enough for control system design but at the same time rich enough to capture the essential features of the dynamics A special effort has been made to explain the several different tire models commonly used in literature and to interpret them physically In the second edition of the book chapters on roll dynamics rollover prevention and hybrid electric vehicles have been added and the chapter on electronic stability control has been enhanced The use of feedback control systems on automobiles is growing rapidly This book is intended to serve as a useful resource to researchers who work on the development of such control systems both in the automotive industry and at universities The book can also serve as a textbook for a graduate level course on Vehicle Dynamics and Control

Dynamics of Controlled Mechanical Systems Gerhard Schweitzer, M. Mansour, 2012-12-06 Many mechanical systems are actively controlled in order to improve their dynamic performance Examples are elastic satellites active vehicle suspension systems robots magnetic bearings automatic machine tools Problems that are typical for mechanical systems arise in the following areas Modeling the mechanical system in such a way that the model is suitable for control design Designing multivariable controls to be robust with respect to parameter variations and uncertainties in system order of elastic structures Fast real time signal processing Generating high dynamic control forces and providing the necessary control power Reliability and safety concepts taking into account the growing role of software within the system The objective of the Symposium has been to present methods that contribute to the solutions of such problems Typical examples are demonstrating the state of the art It intends to evaluate the limits of performance that can be achieved by controlling the dynamics and it should point to gaps in present research and areas for future research Mainly it has brought together leading experts from quite different areas presenting their points of view The International Union of Theoretical and Applied Mechanics IUTAM has initiated and sponsored in cooperation with the International Federation of Automatic Control IFAC this Symposium on Dynamics of Controlled Mechanical Systems held at the Swiss Federal Institute of Technology ETH in Zurich Switzerland May 3D June 3 1988

The Mechanical Systems Design Handbook Yildirim Hurmuzlu, Osita D.I. Nwokah, 2017-12-19 With a specific focus on the needs of the designers and engineers in industrial settings The Mechanical Systems Design Handbook Modeling Measurement and Control presents a practical overview of basic issues associated with design and control of mechanical systems In four sections each edited by a renowned expert this book answers diverse questions fundamental to the successful design and implementation of mechanical systems in a variety of applications Manufacturing addresses design and control issues related to manufacturing systems From fundamental design principles to control of discrete events machine tools and

machining operations to polymer processing and precision manufacturing systems Vibration Control explores a range of topics related to active vibration control including piezoelectric networks the boundary control method and semi active suspension systems Aerospace Systems presents a detailed analysis of the mechanics and dynamics of tensegrity structures Robotics offers encyclopedic coverage of the control and design of robotic systems including kinematics dynamics soft computing techniques and teleoperation Mechanical systems designers and engineers have few resources dedicated to their particular and often unique problems The Mechanical Systems Design Handbook clearly shows how theory applies to real world challenges and will be a welcomed and valuable addition to your library *IUTAM Symposium on Interaction Between Dynamics and Control in Advanced Mechanical Systems* Dick H. van Campen, 1997-03-31 The proceedings of the April 1996 symposium address a wide variety of applications ranging from vehicle systems to mechatronic systems Further they illuminate the relevancy of more fundamental areas such as control of chaos and optimal control The 51 contributions promote theoretical and applied investigations with respect to the interaction of dynamics and control in advanced engineering applications Additional topics include motion control dynamics and bifurcation of nonlinear systems modelling and dynamics of engineering systems vibration control adaptive control optimization and control mechatronic systems modelling control of engineering systems system identification and analysis and control of nonlinear systems Papers are arranged alphabetically by the first author's last name and there is an author index only no subject index Annotation copyrighted by Book News Inc Portland OR

System Dynamics Dean C. Karnopp, Donald L. Margolis, Ronald C. Rosenberg, 2012-03-07 An expanded new edition of the bestselling system dynamics book using the bond graph approach A major revision of the go to resource for engineers facing the increasingly complex job of dynamic systems design System Dynamics Fifth Edition adds a completely new section on the control of mechatronic systems while revising and clarifying material on modeling and computer simulation for a wide variety of physical systems This new edition continues to offer comprehensive up to date coverage of bond graphs using these important design tools to help readers better understand the various components of dynamic systems Covering all topics from the ground up the book provides step by step guidance on how to leverage the power of bond graphs to model the flow of information and energy in all types of engineering systems It begins with simple bond graph models of mechanical electrical and hydraulic systems then goes on to explain in detail how to model more complex systems using computer simulations Readers will find New material and practical advice on the design of control systems using mathematical models New chapters on methods that go beyond predicting system behavior including automatic control observers parameter studies for system design and concept testing Coverage of electromechanical transducers and mechanical systems in plane motion Formulas for computing hydraulic compliances and modeling acoustic systems A discussion of state of the art simulation tools such as MATLAB and bond graph software Complete with numerous figures and examples System Dynamics Fifth Edition is a must have resource for anyone designing

systems and components in the automotive aerospace and defense industries It is also an excellent hands on guide on the latest bond graph methods for readers unfamiliar with physical system modeling

Motion Control of Underactuated Mechanical Systems Javier Moreno-Valenzuela, Carlos Aguilar-Avelar, 2017-07-11 This volume is the first to present a unified perspective on the control of underactuated mechanical systems Based on real time implementation of parameter identification this book provides a variety of algorithms for the Furuta pendulum and the inertia wheel pendulum which are two degrees of freedom mechanical systems Specifically this work addresses and solves the problem of motion control via trajectory tracking in one joint coordinate while another joint is regulated Besides discussions on extensions to higher degrees of freedom systems are given The book aimed at control engineers as well as graduate students ranges from the problem of parameter identification of the studied systems to the practical implementation of sophisticated motion control algorithms Offering real world solutions to manage the control of underactuated systems this book provides a concise tutorial on recent breakthroughs in the field original procedures to achieve bounding of the error trajectories convergence and gain tuning guidelines

The Mechanical Systems Design Handbook Yildirim Hurmuzlu, Osita D.I. Nwokah, 2017-12-19 With a specific focus on the needs of the designers and engineers in industrial settings The Mechanical Systems Design Handbook Modeling Measurement and Control presents a practical overview of basic issues associated with design and control of mechanical systems In four sections each edited by a renowned expert this book answers diverse questions fundamental to the successful design and implementation of mechanical systems in a variety of applications Manufacturing addresses design and control issues related to manufacturing systems From fundamental design principles to control of discrete events machine tools and machining operations to polymer processing and precision manufacturing systems Vibration Control explores a range of topics related to active vibration control including piezoelectric networks the boundary control method and semi active suspension systems Aerospace Systems presents a detailed analysis of the mechanics and dynamics of tensegrity structures Robotics offers encyclopedic coverage of the control and design of robotic systems including kinematics dynamics soft computing techniques and teleoperation Mechanical systems designers and engineers have few resources dedicated to their particular and often unique problems The Mechanical Systems Design Handbook clearly shows how theory applies to real world challenges and will be a welcomed and valuable addition to your library

Adaptive Control Of Underactuated Mechanical Systems An-chyau Huang, Yung-feng Chen, Chen-yu Kai, 2015-01-29 In this book we collected recent results on the control of underactuated mechanical systems subject to internal uncertainties and external disturbances The strategy developed is so universal that it is not restricted to a specific system but a large class of underactuated systems Several benchmark systems are studied in this book including detailed literature review system dynamics derivation control problem formulation and simulation verification The control strategy developed in chapter 4 is able to stabilize all these benchmark systems with satisfactory performance regardless of the underactuated dynamics and

various uncertainties The book is written as a text suitable for graduate students in the advanced course for the control of underactuated systems It also provides valuable tools for researchers and practicing engineers working on the control of underactuated mechanical systems

Control, Stabilization and Dynamics of Mechanical Systems, 1998 This project involved the study of control and dynamics of various physical and engineering systems The Principal Investigator analyzed the stability of mechanical systems in the presence of dissipation as well as the stabilization of mechanical systems by using nonlinear controls He studied in particular a method of control that involves matching a feedback controlled system by an autonomous controlled Lagrangian system by adjusting parameters He analyzed control of satellite dynamics by this method He studied the geometry control and stabilization of systems with nonholonomic constraints systems such as wheeled vehicles or contour following robots He derived an energy based method for analyzing such nonholonomic systems even in the case when the system has natural dissipation He also studied the role of conservation laws in nonholonomic systems He studied optimal control problems and in particular solvable optimal control problems and derived a novel form of the equations for the rigid body using the optimal control approach These equations were linked with discrete rigid body equations and numerical analysis He also worked on the stabilization of systems with complex dynamics arising in anti corrosion processes

Stability Oriented Dynamics and Control of Complex Rigid Flexible Mechanical Systems Using the Example of a Bucket Wheel Excavator Quang Khanh Luu, 2014

Advanced Design of Mechanical Systems: From Analysis to Optimization Jorge A.C. Ambrosio, Peter Eberhard, 2009-11-25 Multibody systems are used extensively in the investigation of mechanical systems including structural and non structural applications It can be argued that among all the areas in solid mechanics the methodologies and applications associated to multibody dynamics are those that provide an ideal framework to aggregate different disciplines This idea is clearly reflected e g in the multidisciplinary applications in biomechanics that use multibody dynamics to describe the motion of the biological entities in finite elements where multibody dynamics provides powerful tools to describe large motion and kinematic restrictions between system components in system control where the methodologies used in multibody dynamics are the prime form of describing the systems under analysis or even in many applications that involve fluid structure interaction or aero elasticity The development of industrial products or the development of analysis tools using multibody dynamics methodologies requires that the final result of the developments are the best possible within some limitations i e they must be optimal Furthermore the performance of the developed systems must either be relatively insensitive to some of their design parameters or be sensitive in a controlled manner to other variables Therefore the sensitivity analysis of such systems is fundamental to support the decision making process This book presents a broad range of tools for designing mechanical systems ranging from the kinematic and dynamic analysis of rigid and flexible multibody systems to their advanced optimization

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