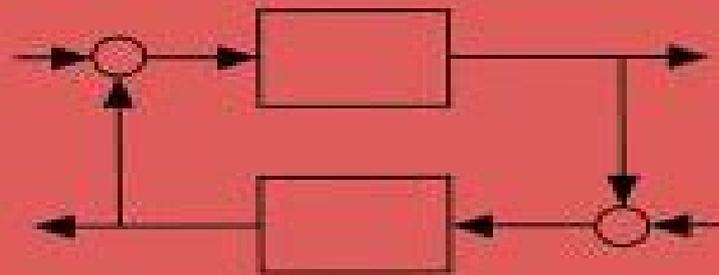


Lecture Notes in Control and Information Sciences 221

Atul Kelkar and Suresh Joshi

Control of Nonlinear Multibody Flexible Space Structures



Springer

Control Of Nonlinear Multibody Flexible Space Structures

Werner Schiehlen, Michael Valásek



Control Of Nonlinear Multibody Flexible Space Structures:

Control of Nonlinear Multibody Flexible Space Structures Atul G. Kelkar, Suresh M. Joshi, 2014-03-12 Addressing the difficult problem of controlling flexible spacecraft having multiple articulated appendages is the aim of this volume. Such systems are needed for space mission concepts including multi payload space platforms and autonomous space based manipulators. These systems are characterised by highly nonlinear dynamics, flexibility in members and joints, low inherent damping and modeling uncertainty. A complete nonlinear rotational dynamic model of a generic multibody flexible system is derived and is shown to possess certain passivity properties. The main result is a class of passivity based nonlinear and linear output feedback control laws that enable globally stable closed loop manoeuvres. The control laws are robust to parametric uncertainties, unmodeled uncertainties and in some cases actuator and sensor nonlinearities. All results given are also applicable to flexible terrestrial manipulators.

Robust Control of Nonlinear Multibody Flexible Space Structures
Atul G. Kelkar, 1993

Control of Nonlinear Flexible Space Structures Jianjun Shi, 2005. With the advances made in computer technology and efficiency of numerical algorithms over last decade the MPC strategies have become quite popular among control community. However application of MPC or GPC to flexible space structure control has not been explored adequately in the literature. The work presented in this thesis primarily focuses on application of GPC to control of nonlinear flexible space structures. This thesis is particularly devoted to the development of various approximate dynamic models, design and assessment of candidate controllers and extensive numerical simulations for a realistic multibody flexible spacecraft namely Jupiter Icy Moons Orbiter JIMO, a Prometheus class of spacecraft proposed by NASA for deep space exploratory missions. A stable GPC algorithm is developed for Multi Input Multi Output MIMO systems. An end point weighting penalty is used in the GPC cost function to guarantee the nominal stability of the closed loop system. A method is given to compute the desired end point state from the desired output trajectory. The methodologies based on Fake Algebraic Riccati Equation (FARE) and constrained nonlinear optimization are developed for synthesis of state weighting matrix. This makes this formulation more practical. A stable reconfigurable GPC architecture is presented and its effectiveness is demonstrated on both aircraft as well as spacecraft model. A representative in orbit maneuver is used for assessing the performance of various control strategies using various design models. Different approximate dynamic models used for analysis include linear single body flexible structure, nonlinear single body flexible structure and nonlinear multibody flexible structure. The control laws evaluated include traditional GPC feedback, linearization based GPC, FLGPC, reconfigurable GPC and nonlinear dissipative control. These various control schemes are evaluated for robust stability and robust performance in the presence of parametric uncertainties and input disturbances. Finally the conclusions are made with regard to the efficacy of these controllers and potential directions for future research.

Robust Control of Nonlinear Flexible Multibody Systems Using Quaternion Feedback and Dissipative Compensation, 1994

Virtual Nonlinear Multibody

Systems Werner Schiehlen, Michael Valásek, 2003-06-30 This book contains an edited version of lectures presented at the NATO ADVANCED STUDY INSTITUTE on VIRTUAL NONLINEAR MULTIBODY SYSTEMS which was held in Prague Czech Republic from 23 June to 3 July 2002 It was organized by the Department of Mechanics Faculty of Mechanical Engineering Czech Technical University in Prague in cooperation with the Institute B of Mechanics University of Stuttgart Germany The ADVANCED STUDY INSTITUTE addressed the state of the art in multibody dynamics placing special emphasis on nonlinear systems virtual reality and control design as required in mechatronics and its corresponding applications Eighty six participants from twenty two countries representing academia industry government and research institutions attended the meeting The high qualification of the participants contributed greatly to the success of the ADVANCED STUDY INSTITUTE in that it promoted the exchange of experience between leading scientists and young scholars and encouraged discussions to generate new ideas and to define directions of research and future developments The full program of the ADVANCED STUDY INSTITUTE included also contributed presentations made by participants where different topics were explored among them Such topics include nonholonomic systems flexible multibody systems contact impact and collision numerical methods of differential algebraic equations simulation approaches virtual modelling mechatronic design control biomechanics space structures and vehicle dynamics These presentations have been reviewed and a selection will be published in this volume and in special issues of the journals *Multibody System Dynamics* and *Mechanics of Structures and Machines* [Dynamics of Flexible Multibody Systems](#) American Society of Mechanical Engineers. Winter Annual Meeting, 1992 **Large Space Structures & Systems in the Space Station Era**, 1991 **Control System Applications** William S. Levine, 2018-10-24 Control technology permeates every aspect of our lives We rely on them to perform a wide variety of tasks without giving much thought to the origins of the technology or how it became such an important part of our lives *Control System Applications* covers the uses of control systems both in the common and in the uncommon areas of our lives From the everyday to the unusual it is all here From process control to human in the loop control this book provides illustrations and examples of how these systems are applied Each chapter contains an introduction to the application a section defining terms and references and a section on further readings that help you understand and use the techniques in your work environment Highly readable and comprehensive *Control System Applications* explores the uses of control systems It illustrates the diversity of control systems and provides examples of how the theory can be applied to specific practical problems It contains information about aspects of control that are not fully captured by the theory such as techniques for protecting against controller failure and the role of cost and complexity in specifying controller designs **Scientific and Technical Aerospace Reports**, 1989 **The Control Handbook** William S. Levine, 1996-02-23 This is the biggest most comprehensive and most prestigious compilation of articles on control systems imaginable Every aspect of control is expertly covered from the mathematical foundations to applications in robot and manipulator control Never before has such a massive

amount of authoritative detailed accurate and well organized information been available in a single volume Absolutely everyone working in any aspect of systems and controls must have this book Proceedings of the 1993 American Control Conference ,1993 *Large Space Structures & Systems in the Space Station Era* ,1993 *Proceedings of the ASME Aerospace Division* American Society of Mechanical Engineers. Aerospace Division,2005 **A Class of Stabilizing Controllers for Flexible Multibody Systems** National Aeronautics and Space Administration (NASA),2018-06-27 The problem of controlling a class of nonlinear multibody flexible space systems consisting of a flexible central body to which a number of articulated appendages are attached is considered Collocated actuators and sensors are assumed and global asymptotic stability of such systems is established under a nonlinear dissipative control law The stability is shown to be robust to unmodeled dynamics and parametric uncertainties For a special case in which the attitude motion of the central body is small the system although still nonlinear is shown to be stabilized by linear dissipative control laws Two types of linear controllers are considered static dissipative constant gain and dynamic dissipative The static dissipative control law is also shown to provide robust stability in the presence of certain classes of actuator and sensor nonlinearities and actuator dynamics The results obtained for this special case can also be readily applied for controlling single body linear flexible space structures For this case a synthesis technique for the design of a suboptimal dynamic dissipative controller is also presented The results obtained in this paper are applicable to a broad class of multibody and single body systems such as flexible multilink manipulators multipayload space platforms and space antennas The stability proofs use the Lyapunov approach and exploit the inherent passivity of such systems Joshi Suresh M and Kelkar Atul G and Maghami Peiman G Langley Research Center RTOP 233 01 01 05 *Control and Intelligent Systems* ,2001 Journal of Dynamic Systems, Measurement, and Control ,2007 NASA SP. ,1991 **Dynamics and Control of Large Structures** Leonard Meirovitch,1991

Government Reports Announcements & Index ,1995 **Workshop on High Performance Computing and Gigabit Local Area Networks** G. Cooperman,G. Michler,H. Vinck,1997-06-20 The combination of fast low latency networks and high performance distributed tools for mathematical software has resulted in widespread affordable scientific computing facilities Practitioners working in the fields of computer communication networks distributed computing computational algebra and numerical analysis have been brought together to contribute to this volume and explore the emerging distributed and parallel technology in a scientific environment This collection includes surveys and original research on both software infrastructure for parallel applications and hardware and architecture infrastructure Among the topics covered are switch based high speed networks ATM over local and wide area networks network performance application support finite element methods eigenvalue problems invariant subspace decomposition QR factorization and Todd Coxseter coset enumeration

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Table of Contents Control Of Nonlinear Multibody Flexible Space Structures

1. Understanding the eBook Control Of Nonlinear Multibody Flexible Space Structures
 - The Rise of Digital Reading Control Of Nonlinear Multibody Flexible Space Structures
 - Advantages of eBooks Over Traditional Books
2. Identifying Control Of Nonlinear Multibody Flexible Space Structures
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Control Of Nonlinear Multibody Flexible Space Structures
 - User-Friendly Interface
4. Exploring eBook Recommendations from Control Of Nonlinear Multibody Flexible Space Structures
 - Personalized Recommendations
 - Control Of Nonlinear Multibody Flexible Space Structures User Reviews and Ratings
 - Control Of Nonlinear Multibody Flexible Space Structures and Bestseller Lists
5. Accessing Control Of Nonlinear Multibody Flexible Space Structures Free and Paid eBooks
 - Control Of Nonlinear Multibody Flexible Space Structures Public Domain eBooks
 - Control Of Nonlinear Multibody Flexible Space Structures eBook Subscription Services
 - Control Of Nonlinear Multibody Flexible Space Structures Budget-Friendly Options

6. Navigating Control Of Nonlinear Multibody Flexible Space Structures eBook Formats
 - ePub, PDF, MOBI, and More
 - Control Of Nonlinear Multibody Flexible Space Structures Compatibility with Devices
 - Control Of Nonlinear Multibody Flexible Space Structures Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Control Of Nonlinear Multibody Flexible Space Structures
 - Highlighting and Note-Taking Control Of Nonlinear Multibody Flexible Space Structures
 - Interactive Elements Control Of Nonlinear Multibody Flexible Space Structures
8. Staying Engaged with Control Of Nonlinear Multibody Flexible Space Structures
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Control Of Nonlinear Multibody Flexible Space Structures
9. Balancing eBooks and Physical Books Control Of Nonlinear Multibody Flexible Space Structures
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Control Of Nonlinear Multibody Flexible Space Structures
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Control Of Nonlinear Multibody Flexible Space Structures
 - Setting Reading Goals Control Of Nonlinear Multibody Flexible Space Structures
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Control Of Nonlinear Multibody Flexible Space Structures
 - Fact-Checking eBook Content of Control Of Nonlinear Multibody Flexible Space Structures
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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