

Communications and Control Engineering



Bernard Brogliato

Nonsmooth Mechanics

Models, Dynamics and Control

Third Edition



Springer

Nonsmooth Mechanics Models Dynamics And Control Communications And Control Engineering

Brendan G. Carr



Nonsmooth Mechanics Models Dynamics And Control Communications And Control Engineering:

Nonsmooth Mechanics Bernard Brogliato, 1999-03-30 Thank you for opening the second edition of this monograph which is devoted to the study of a class of nonsmooth dynamical systems of the general form $\dot{x} = f(x, u)$ where $x \in \mathbb{R}^n$ is the system's state vector $u \in \mathbb{R}^m$ is the vector of inputs and the function f represents a unilateral constraint that is imposed on the state. More precisely we shall restrict ourselves to a subclass of such systems namely mechanical systems subject to unilateral constraints on the position whose dynamical equations may be in a first instance written as $M \ddot{q} = g(q, \dot{q}, t)$ where $q \in \mathbb{R}^n$ is the vector of generalized coordinates of the system and u is an input or controller that generally involves a state feedback loop $u = u(q, \dot{q}, t)$ with $z \in \mathbb{R}^n$ when the controller is a dynamic state feedback. Mechanical systems composed of rigid bodies interacting fall into this subclass. A general property of systems as in (0.1) and (0.2) is that their solutions are nonsmooth with respect to time. Nonsmoothness arises primarily from the occurrence of impacts or collisions or percussions in the dynamical behaviour when the trajectories attain the surface $f(x, t) = 0$. They are necessary to keep the trajectories within the subspace $f(x, t) \leq 0$ of the system's state space.

Informatics in Control, Automation and Robotics Oleg Gusikhin, Kurosh Madani, 2019-04-18 The book focuses the latest endeavours relating researches and developments conducted in fields of Control Robotics and Automation. Through more than twenty revised and extended articles the present book aims to provide the most up to date state of art of the aforementioned fields allowing researcher PhD students and engineers not only updating their knowledge but also benefiting from the source of inspiration that represents the set of selected articles of the book. The deliberate intention of editors to cover as well theoretical facets of those fields as their practical accomplishments and implementations offers the benefit of gathering in a same volume a factual and well balanced prospect of nowadays research in those topics. A special attention toward Intelligent Robots and Control may characterize another benefit of this book.

Robotics and Automation Handbook Thomas R. Kurfess, 2018-10-03 As the capability and utility of robots has increased dramatically with new technology robotic systems can perform tasks that are physically dangerous for humans repetitive in nature or require increased accuracy precision and sterile conditions to radically minimize human error. The Robotics and Automation Handbook addresses the major aspects of designing fabricating and enabling robotic systems and their various applications. It presents kinetic and dynamic methods for analyzing robotic systems considering factors such as force and torque. From these analyses the book develops several controls approaches including servo actuation hybrid control and trajectory planning. Design aspects include determining specifications for a robot determining its configuration and utilizing sensors and actuators. The featured applications focus on how the specific difficulties are overcome in the development of the robotic system. With the ability to increase human safety and precision in applications ranging from handling hazardous materials and exploring extreme environments to manufacturing and medicine the uses for robots are growing steadily. The Robotics and Automation Handbook provides a solid foundation for engineers.

and scientists interested in designing fabricating or utilizing robotic systems

Friction-Induced Vibration in Lead Screw Drives Orang Vahid-Araghi, Farid Golnaraghi, 2010-10-14 Friction Induced Vibration in Lead Screw Drives covers the dynamics of lead screw drives with an emphasis on the role of friction Friction induced vibration in lead screws can be the cause of unacceptably high levels of audible noise as well as loss of operation accuracy and shortened life Although lead screw drives have a long history and their mechanical design and manufacturing aspects are very well understood the role of friction in their dynamical behavior has not been comprehensively treated The book draws on the vast body of work on the subject of dynamical systems with friction such as disk brake systems and offers said treatment along with Unique coverage of modeling of multi DOF lead screw systems with friction Detailed analysis of negative damping mode coupling and kinematic constraint instability mechanisms in lead screws drives A practical parameter identification approach for the velocity dependent coefficient of friction in lead screw drives Friction Induced Vibration in Lead Screw Drives serves as the definitive text on the friction induced vibration of lead screws and includes a practical case study where the developed methods are used to study the excessive noise problem of a lead screw drive system and to put forward design modifications that eliminate the friction induced vibrations

Surveys in Differential-Algebraic Equations I Achim Ilchmann, Timo Reis, 2013-03-19 The need for a rigorous mathematical theory for Differential Algebraic Equations DAEs has its roots in the widespread applications of controlled dynamical systems especially in mechanical and electrical engineering Due to the strong relation to ordinary differential equations the literature for DAEs mainly started out from introductory textbooks As such the present monograph is new in the sense that it comprises survey articles on various fields of DAEs providing reviews presentations of the current state of research and new concepts in Controllability for linear DAEs Port Hamiltonian differential algebraic systems Robustness of DAEs Solution concepts for DAEs DAEs in circuit modeling The results in the individual chapters are presented in an accessible style making this book suitable not only for active researchers but also for graduate students with a good knowledge of the basic principles of DAEs for self study

Nonsmooth Impact Mechanics Bernard Brogliato, 2014-03-12 The field of nonsmooth impact dynamics and its applications to the control of robotic systems is examined in this monograph The mathematical foundations of the dynamics of systems of rigid bodies submitted to a set of unilateral constraints are introduced Following on from this the macroscopic physical laws of shocks restitution roles are described and commented on In view of the applications to feedback control stability properties of trajectories of various types of measure differential equations are reviewed This includes a general stability analysis framework suitable for a class of impacting robotic systems performing complete tasks Finally feedback control of manipulators subject to unilateral constraints which consist of a class of hybrid systems is studied

Proceedings, 2005

Nonsmooth Mechanics of Solids Jaroslav Haslinger, Georgios E. Stavroulakis, 2006-11-21 Mechanics have played an important role in mathematics from infinitesimal calculus calculus of variations partial differential equations and numerical methods finite elements

Originally mechanics treated smooth objects Technological progress has evoked the necessity to model and solve more complicated problems like unilateral contact and friction plasticity delamination and adhesion advanced materials etc The new tools include convex analysis differential calculus for convex functions and subgradients of convex functions and extensions for nonconvex problems Nonsmooth mechanics is a relatively complex field and requires a good knowledge of mechanics and a good background in some parts of modern mathematics The present volume of lecture notes follows a very successful advanced school with the aim to cover as much as possible all these aspects Therefore the contributions cover mechanical aspects as well as the mathematical and numerical treatment *American Book Publishing Record* ,1999

International Books in Print ,1990 **Journal of Dynamic Systems, Measurement, and Control** ,2001 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality **Books in Print** ,1991 **Mathematical Reviews** ,2005 *Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen* ,1996 *Cumulated Index to the Books* ,1999 *International Aerospace Abstracts* ,1999 *Forthcoming Books* Rose Arny,2001-08 *Engineering Research Centres* T. Archbold,John C. Laidlaw,Jean McKechnie,1984 **Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics** ,1991 **A Variational Approach to Nonsmooth Dynamics** Samir Adly,2018-02-19 This brief examines mathematical models in nonsmooth mechanics and nonregular electrical circuits including evolution variational inequalities complementarity systems differential inclusions second order dynamics Lur e systems and Moreau s sweeping process The field of nonsmooth dynamics is of great interest to mathematicians mechanicians automatic controllers and engineers The present volume acknowledges this transversality and provides a multidisciplinary view as it outlines fundamental results in nonsmooth dynamics and explains how to use them to study various problems in engineering In particular the author explores the question of how to redefine the notion of dynamical systems in light of modern variational and nonsmooth analysis With the aim of bridging between the communities of applied mathematicians engineers and researchers in control theory and nonlinear systems this brief outlines both relevant mathematical proofs and models in unilateral mechanics and electronics

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