QUALITATIVE PROBLEMS FOR DIFFERENTIAL EQUATIONS AND CONTROL THEORY

Editor

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Qualitative Problems For Differential Equations And Control Theory

Mauro Biliotti,Vikram Jha,Norman Johnson

Qualitative Problems For Differential Equations And Control Theory:

   Qualitative Problems for Differential Equations and Control Theory C. Corduneanu,1995   *Ordinary Differential Equations* Hartmut Logemann,Eugene P. Ryan,2014-07-08 The book comprises a rigorous and self contained treatment of initial value problems for ordinary differential equations It additionally develops the basics of control theory which is a unique feature in current textbook literature The following topics are particularly emphasised existence uniqueness and continuation of solutions continuous dependence on initial data flows qualitative behaviour of solutions limit sets stability theory invariance principles introductory control theory feedback and stabilization The last two items cover classical control theoretic material such as linear control theory and absolute stability of nonlinear feedback systems It also includes an introduction to the more recent concept of input to state stability Only a basic grounding in linear algebra and analysis is assumed Ordinary Differential Equations will be suitable for final year undergraduate students of mathematics and appropriate for beginning postgraduates in mathematics and in mathematically oriented engineering and science

   Mathematical Analysis With Applications Sandra Pinelas,Arkadii Kim,Victor Vlasov,2020-05-26 This proceedings volume covers research in key areas of applied mathematical analysis and gathers works presented at the international conference Concord 90 in honor of the 90th birthday of Professor Constantin Corduneanu 1928 2018 The event which Professor Corduneanu was able to attend was held at Ural Federal University in Ekaterinburg Russia on July 26 28 2018 Professor Corduneanu s research in mathematical analysis spanned nearly seven decades and explored a range of important issues in the field including studies of global existence stability problems and oscillation theory with special emphasis on various classes of nonlinear equations He published over two hundred articles and several books including Almost Periodic Oscillations and Waves Springer 2009 In this volume the reader will find selected peer reviewed articles from seven fields of research Differential Equations Optimal Control and Stabilization Stochastic Methods Topology and Functions Approximation Mathematical Biology and Bioinformatics Mathematical Modeling in Mining Mathematical Modeling in Economics and Computer Science and Image Processing which honor and reflect Professor Corduneanu s legacy in the fields of oscillation stability and control theory   *Certain Problems in the Theory of Stability of Motion in the Whole* V. A. Pliss,1958

   Optimization of Elliptic Systems Pekka Neittaanmaki,Jürgen Sprekels,Dan Tiba,2007-01-04 The present monograph is intended to provide a comprehensive and accessible introduction to the optimization of elliptic systems This area of mathematical research which has many important applications in science and technology has experienced an impressive development during the past two decades There are already many good textbooks dealing with various aspects of optimal design problems In this regard we refer to the works of Pironneau 1984 Haslinger and Neittaanmaki 1988 1996 Sokolowski and Zolksio 1992 Litvinov 2000 Allaire 2001 Mohammadi and Pironneau 2001 Delfour and Zolksio 2001 and Makinen and Haslinger 2003 Already Lions I9681 devoted a major part of his classical monograph on the optimal control of partial

differential equations to the optimization of elliptic systems Let us also mention that even the very first known problem of the calculus of variations the brachistochrone studied by Bernoulli back in 1696 is in fact a shape optimization problem The natural richness of this mathematical research subject as well as the extremely large field of possible applications has created the unusual situation that although many important results and methods have already been est lished there are still pressing unsolved questions In this monograph we aim to address some of these open problems as a consequence there is only a minor overlap with the textbooks already existing in the field **Theory of Control Systems Described by Differential Inclusions** Zhengzhi Han,Xiushan Cai,Jun Huang,2016-06-15 This book provides a brief introduction to the theory of finite dimensional differential inclusions and deals in depth with control of three kinds of differential inclusion systems The authors introduce the algebraic decomposition of convex processes the stabilization of polytopic systems and observations of Lur systems They also introduce the elemental theory of finite dimensional differential inclusions and the properties and designs of the control systems described by differential inclusions Addressing the material with clarity and simplicity the book includes recent research achievements and spans all concepts concluding with a critical mathematical framework This book is intended for researchers teachers and postgraduate students in the area of automatic control engineering *Mathematical Reviews* ,1996 Nonlinear Dynamical Systems and Control Wassim M. Haddad,VijaySekhar Chellaboina,2011-09-19 Nonlinear Dynamical Systems and Control presents and develops an extensive treatment of stability analysis and control design of nonlinear dynamical systems with an emphasis on Lyapunov based methods Dynamical system theory lies at the heart of mathematical sciences and engineering The application of dynamical systems has crossed interdisciplinary boundaries from chemistry to biochemistry to chemical kinetics from medicine to biology to population genetics from economics to sociology to psychology and from physics to mechanics to engineering The increasingly complex nature of engineering systems requiring feedback control to obtain a desired system behavior also gives rise to dynamical systems Wassim Haddad and VijaySekhar Chellaboina provide an exhaustive treatment of nonlinear systems theory and control using the highest standards of exposition and rigor This graduate level textbook goes well beyond standard treatments by developing Lyapunov stability theory partial stability boundedness input to state stability input output stability finite time stability semistability stability of sets and periodic orbits and stability theorems via vector Lyapunov functions A complete and thorough treatment of dissipativity theory absolute stability theory stability of feedback systems optimal control disturbance rejection control and robust control for nonlinear dynamical systems is also given This book is an indispensable resource for applied mathematicians dynamical systems theorists control theorists and engineers **Global Methods in Optimal Control Theory** Vadim Krotov,1995-10-13 This work describes all basic equaitons and inequalities that form the necessary and sufficient optimality conditions of variational calculus and the theory of optimal control Subjects addressed include developments in the investigation of optimality conditions new classes of solutions analytical and

computation methods and applications **optimization in control theory and practice** , **Sensitivity Methods in Control Theory** L. Radanović,2014-06-28 Sensitivity Methods in Control Theory is a collection of manuscripts presented as the Third International Symposium of Sensitivity Analysis held at Dubrovnik Yugoslavia on August 31 September 5 1964 sponsored by The Theory Committee of International Federation of Automatic Control Sensitivity theory or sensitivity analysis concerns the solution of problems associated with parameter variations within the general scope of control theory This book is organized into five parts encompassing 30 chapters Part I presents some basic approaches of sensitivity analysis such the Lyapunov s theory of stability invariant imbedding nonlinear sampled data and linear time varying systems This part also looks into the preliminary steps towards the development of game theory and some general applications of sensitivity analysis Part II treats the problem of accuracy reliability self adjustment and optimization of sensitivity of automatic control systems while Part III deals with the functional derivative technique of sensitivity analysis and its applications for designing self adjusting control systems Part IV describes the task of synthesizing control systems for linear plants with variable parameters satisfying specified performance criteria Part V considers the association between sensitivity and optimality in various control systems This book will prove useful to design and other specialized fields in engineering **The Shape of Space** Jeffrey R. Weeks,2001-12-12 Maintaining the standard of excellence set by the previous edition this textbook covers the basic geometry of two and three dimensional spaces Written by a master expositor leading researcher in the field and MacArthur Fellow it includes experiments to determine the true shape of the universe and contains illustrated examples and engaging exercises that teach mind expanding ideas in an intuitive and informal way Bridging the gap from geometry to the latest work in observational cosmology the book illustrates the connection between geometry and the behavior of the physical universe and explains how radiation remaining from the big bang may reveal the actual shape of the universe Control Theory for Humans Richard J. Jagacinski,John M. Flach,2018-10-08 This textbook provides a tutorial introduction to behavioral applications of control theory Control theory describes the information one should be sensitive to and the pattern of influence that one should exert on a dynamic system in order to achieve a goal As such it is applicable to various forms of dynamic behavior The book primarily deals with manual control e g moving the cursor on a computer screen lifting an object hitting a ball driving a car both as a substantive area of study and as a useful perspective for approaching control theory It is the experience of the authors that by imagining themselves as part of a manual control system students are better able to learn numerous concepts in this field Topics include varieties of control theory such as classical optimal fuzzy adaptive and learning control as well as perception and decision making in dynamic contexts The authors also discuss implications of control theory for how experiments can be conducted in the behavioral sciences In each of these areas they have provided brief essays intended to convey key concepts that enable the reader to more easily pursue additional readings Behavioral scientists teaching control courses will be very interested in this book Applied Functional Analysis Abul Hasan

Siddiqi,2003-09-19 The methods of functional analysis have helped solve diverse real world problems in optimization modeling analysis numerical approximation and computer simulation Applied Functional Analysis presents functional analysis results surfacing repeatedly in scientific and technological applications and presides over the most current analytical and n

Graph Algebras and Automata Andrei Kelarev,2003-07-08 Graph algebras possess the capacity to relate fundamental concepts of computer science combinatorics graph theory operations research and universal algebra They are used to identify nontrivial connections across notions expose conceptual properties and mediate the application of methods from one area toward questions of the other four After a concentrated review of the prerequisite mathematical background Graph Algebras and Automata defines graph algebras and reveals their applicability to automata theory It proceeds to explore assorted monoids semigroups rings codes and other algebraic structures and to outline theorems and algorithms for finite state automata and grammars **Global Optimization Using Interval Analysis** Eldon Hansen,G. William Walster,2003-12-19 Employing a closed set theoretic foundation for interval computations Global Optimization Using Interval Analysis simplifies algorithm construction and increases generality of interval arithmetic This Second Edition contains an up to date discussion of interval methods for solving systems of nonlinear equations and global optimization problems It expands and improves various aspects of its forerunner and features significant new discussions such as those on the use of consistency methods to enhance algorithm performance Provided algorithms are guaranteed to find and bound all solutions to these problems despite bounded errors in data in approximations and from use of rounded arithmetic *Hopf Algebra* Sorin Dascalescu,Constantin Nastasescu,Serban Raianu,2000-09-15 This study covers comodules rational modules and bicomodules cosemisimple semiperfect and co Frobenius algebras bialgebras and Hopf algebras actions and coactions of Hopf algebras on algebras finite dimensional Hopf algebras with the Nicholas Zoeller and Taft Wilson theorems and character theory and more A Primer of Algebraic Geometry Huishi Li,Freddy Van Oystaeyen,2017-12-19 Presents the structure of algebras appearing in representation theory of groups and algebras with general ring theoretic methods related to representation theory Covers affine algebraic sets and the nullstellensatz polynomial and rational functions projective algebraic sets Groebner basis dimension of algebraic sets local theory curves and elliptic curves and more **Foundations of Translation Planes** Mauro Biliotti,Vikram Jha,Norman Johnson,2001-07-13 An exploration of the construction and analysis of translation planes to spreads partial spreads co ordinate structures automorphisms autotopisms and collineation groups It emphasizes the manipulation of incidence structures by various co ordinate systems including quasisets spreads and matrix spreadsets The volume showcases methods of structure theory as well as tools and techniques for the construction of new planes Applications Of Orlicz Spaces M.M. Rao,Z.D. Ren,2002-02-08 Presents previously unpublished material on the fundumental pronciples and properties of Orlicz sequence and function spaces Examines the sample path behavior of stochastic processes Provides practical applications in statistics and probability

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