

MARSTON MORSE

Variational Analysis

CRITICAL EXTREMALS
AND
STURMIAN EXTENSIONS

Quadratic Functionals In Variational Analysis And Control Theory

Marston Morse



Quadratic Functionals In Variational Analysis And Control Theory:

Quadratic Functionals in Variational Analysis and Control Theory Werner Kratz, 1995-04-25 This monograph is intended to provide classical and recent results on quadratic functionals On the one hand it contains the well known facts on the second variation from the calculus of variations including Jacobi type conditions and on the other hand new aspects in control theory in particular the notion of strong observability and its relation to the optimal linear regulator The main object described is a general theory of self adjoint eigenvalue problems for linear Hamiltonian systems which includes Morse s oscillation theory and his extensions of Sturmian theory The dependence on the eigenvalue parameter may be nonlinear The treatment is based on a novel approach via field theory in particular Picone s identity The central features needed for the method are recent results on Riccati matrix differential equations and on monotone matrix valued functions Applications of the theory yield classical and new results in such areas as for example linear control theory variational analysis Rayleigh s principle or Sturm Liouville eigenvalue problems The book is self contained and accessible to mathematics or science students entering the graduate level

Variational Calculus, Optimal Control, and Applications Rolf Klötzler, 1998 The 12th conference on Variational Calculus Optimal Control and Applications took place September 23-27 1996 in Trassenheide on the Baltic Sea island of Usedom Seventy mathematicians from ten countries participated The preceding eleven conferences too were held in places of natural beauty throughout West Pomerania the first time in 1972 in Zinnowitz which is in the immediate area of Trassenheide The conferences were founded and led ten times by Professor Bittner Greifswald and Professor Klötzler Leipzig who both celebrated their 65th birthdays in 1996 The 12th conference in Trassenheide was therefore also dedicated to L Bittner and R Klotzler Both scientists made a lasting impression on control theory in the former GDR Originally the conferences served to promote the exchange of research results In the first years most of the lectures were theoretical but in the last few conferences practical applications have been given more attention Besides their pioneering theoretical works both honorees have also always dealt with applications problems L Bittner has for example examined optimal control of nuclear reactors and associated safety aspects Since 1992 he has been working on applications in optimal control in flight dynamics R Klotzler recently applied his results on optimal autobahn planning to the south tangent in Leipzig The contributions published in these proceedings reflect the trend to practical problems starting points are often questions from flight dynamics

Discrete Dynamics And Difference Equations - Proceedings Of The Twelfth International Conference On Difference Equations And Applications Saber N Elaydi, Jose Manuel Ferreira, Henrique Oliveira, Joao F Alves, 2010-11-02 This volume holds a collection of articles based on the talks presented at ICDEA 2007 in Lisbon Portugal The volume encompasses current topics on stability and bifurcation chaos mathematical biology iteration theory nonautonomous systems and stochastic dynamical systems

Nonautonomous Linear Hamiltonian Systems: Oscillation, Spectral Theory and Control Russell Johnson, Rafael Obaya, Sylvia Novo, Carmen Núñez, Roberta

Fabbri, 2016-03-25 This monograph contains an in depth analysis of the dynamics given by a linear Hamiltonian system of general dimension with nonautonomous bounded and uniformly continuous coefficients without other initial assumptions on time recurrence Particular attention is given to the oscillation properties of the solutions as well as to a spectral theory appropriate for such systems The book contains extensions of results which are well known when the coefficients are autonomous or periodic as well as in the nonautonomous two dimensional case However a substantial part of the theory presented here is new even in those much simpler situations The authors make systematic use of basic facts concerning Lagrange planes and symplectic matrices and apply some fundamental methods of topological dynamics and ergodic theory Among the tools used in the analysis which include Lyapunov exponents Weyl matrices exponential dichotomy and weak disconjugacy a fundamental role is played by the rotation number for linear Hamiltonian systems of general dimension The properties of all these objects form the basis for the study of several themes concerning linear quadratic control problems including the linear regulator property the Kalman Bucy filter the infinite horizon optimization problem the nonautonomous version of the Yakubovich Frequency Theorem and dissipativity in the Willems sense The book will be useful for graduate students and researchers interested in nonautonomous differential equations dynamical systems and ergodic theory spectral theory of differential operators and control theory Sturm-Liouville Theory Werner O. Amrein, Andreas M. Hinz, David B. Pearson, 2005-12-05 This is a collection of survey articles based on lectures presented at a colloquium and workshop in Geneva in 2003 to commemorate the 200th anniversary of the birth of Charles Fran ois Sturm It aims at giving an overview of the development of Sturm Liouville theory from its historical roots to present day research It is the first time that such a comprehensive survey has been made available in compact form The contributions come from internationally renowned experts and cover a wide range of developments of the theory The book can therefore serve both as an introduction to Sturm Liouville theory and as background for ongoing research The volume is addressed to researchers in related areas to advanced students and to those interested in the historical development of mathematics The book will also be of interest to those involved in applications of the theory to diverse areas such as engineering fluid dynamics and computational spectral analysis Discrete Oscillation Theory Ravi P. Agarwal, 2005 This book is devoted to a rapidly developing branch of the qualitative theory of difference equations with or without delays It presents the theory of oscillation of difference equations exhibiting classical as well as very recent results in that area While there are several books on difference equations and also on oscillation theory for ordinary differential equations there is until now no book devoted solely to oscillation theory for difference equations This book is filling the gap and it can easily be used as an encyclopedia and reference tool for discrete oscillation theory In nine chapters the book covers a wide range of subjects including oscillation theory for second order linear difference equations systems of difference equations half linear difference equations nonlinear difference equations neutral difference equations delay difference equations and differential equations with piecewise constant arguments This

book summarizes almost 300 recent research papers and hence covers all aspects of discrete oscillation theory that have been discussed in recent journal articles The presented theory is illustrated with 121 examples throughout the book Each chapter concludes with a section that is devoted to notes and bibliographical and historical remarks The book is addressed to a wide audience of specialists such as mathematicians engineers biologists and physicists Besides serving as a reference tool for researchers in difference equations this book can also be easily used as a textbook for undergraduate or graduate classes It is written at a level easy to understand for college students who have had courses in calculus

Symplectic Difference Systems: Oscillation and Spectral Theory Ondřej Došlý, Julia Elyseeva, Roman Šimon Hilscher, 2019-09-06 This monograph is devoted to covering the main results in the qualitative theory of symplectic difference systems including linear Hamiltonian difference systems and Sturm Liouville difference equations with the emphasis on the oscillation and spectral theory As a pioneer monograph in this field it contains nowadays standard theory of symplectic systems as well as the most current results in this field which are based on the recently developed central object the comparative index The book contains numerous results and citations which were till now scattered only in journal papers The book also provides new applications of the theory of matrices in this field in particular of the Moore Penrose pseudoinverse matrices orthogonal projectors and symplectic matrix factorizations Thus it brings this topic to the attention of researchers and students in pure as well as applied mathematics

Stochastic and Infinite Dimensional Analysis Christopher C. Bernido, Maria Victoria Carpio-Bernido, Martin Grothaus, Tobias Kuna, Maria João Oliveira, José Luís da Silva, 2016-08-10 This volume presents a collection of papers covering applications from a wide range of systems with infinitely many degrees of freedom studied using techniques from stochastic and infinite dimensional analysis e g Feynman path integrals the statistical mechanics of polymer chains complex networks and quantum field theory Systems of infinitely many degrees of freedom create their particular mathematical challenges which have been addressed by different mathematical theories namely in the theories of stochastic processes Malliavin calculus and especially white noise analysis These proceedings are inspired by a conference held on the occasion of Prof Ludwig Streit's 75th birthday and celebrate his pioneering and ongoing work in these fields

Lyapunov Inequalities and Applications Ravi P. Agarwal, Martin Bohner, Abdullah Özbekler, 2021-04-12 This book provides an extensive survey on Lyapunov type inequalities It summarizes and puts order into a vast literature available on the subject and sketches recent developments in this topic In an elegant and didactic way this work presents the concepts underlying Lyapunov type inequalities covering how they developed and what kind of problems they address This survey starts by introducing basic applications of Lyapunov's inequalities It then advances towards even order odd order and higher order boundary value problems Lyapunov and Hartman type inequalities systems of linear nonlinear and quasi linear differential equations recent developments in Lyapunov type inequalities partial differential equations linear difference equations and Lyapunov type inequalities for linear half linear and nonlinear dynamic equations on time scales as well as linear Hamiltonian

dynamic systems Senior undergraduate students and graduate students of mathematics engineering and science will benefit most from this book as well as researchers in the areas of ordinary differential equations partial differential equations difference equations and dynamic equations Some background in calculus ordinary and partial differential equations and difference equations is recommended for full enjoyment of the content **Variational Analysis** Marston Morse, 2013-02-27 This text presents extended separation comparison and oscillation theorems that replace classical analysis Its analysis of related quadratic functionals shows how critical extremals can substitute for minimizing extremals 1973 edition

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