Introduction to the Theory of Differential Inclusions

Georgi V. Smirnov

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Introduction To The Theory Of Differential Inclusions

J.-P. Aubin,A. Cellina

Introduction To The Theory Of Differential Inclusions:

Introduction to the Theory of Differential Inclusions Georgi V. Smirnov, Differential inclusions play an important role as a tool in the study of various dynamical processes described by equations with a discontinuous or multivalued right hand side This text acts as an introduction to the subject *Introduction to the Theory of Differential Inclusions* Georgi V. Smirnov,2022-02-22 A differential inclusion is a relation of the form dot x in F x where F is a set valued map associating any point x in R n with a set F x subset R n As such the notion of a differential inclusion generalizes the notion of an ordinary differential equation of the form dot x f x Therefore all problems usually studied in the theory of ordinary differential equations existence and continuation of solutions dependence on initial conditions and parameters etc can be studied for differential inclusions as well Since a differential inclusion usually has many solutions starting at a given point new types of problems arise such as investigation of topological properties of the set of solutions selection of solutions with given properties and many others Differential inclusions play an important role as a tool in the study of various dynamical processes described by equations with a discontinuous or multivalued right hand side occurring in particular in the study of dynamics of economical social and biological macrosystems They also are very useful in proving existence theorems in control theory This text provides an introductory treatment to the theory of differential inclusions The reader is only required to know ordinary differential equations theory of functions and functional analysis on the elementary level Chapter 1 contains a brief introduction to convex analysis Chapter 2 considers set valued maps Chapter 3 is devoted to the Mordukhovich version of nonsmooth analysis Chapter 4 contains the main existence theorems and gives an idea of the approximation techniques used throughout the text Chapter 5 is devoted to the viability problem i e the problem of selection of a solution to a differential inclusion that is contained in a given set Chapter 6 considers the controllability problem Chapter 7 discusses extremal problems for differential inclusions Chapter 8 presents stability theory and Chapter 9 deals with the stabilization problem *Differential Inclusions* J.-P. Aubin,A. Cellina,2012-12-06 A great impetus to study differential inclusions came from the development of Control Theory i e of dynamical systems x t f t x t u t x O xo controlled by parameters u t the controls Indeed if we introduce the set valued map F t x f t x u ueu then solutions to the differential equations are solutions to the differen tial inclusion x t EF t x t x O xo in which the controls do not appear explicitly Systems Theory provides dynamical systems of the form d x t A x t dt B x t C x t x O xo in which the velocity of the state of the system depends not only upon the x t of the system at time t but also on variations of observations state B x t of the state This is a particular case of an implicit differential equation f t x t x t 0 which can be regarded as a differential inclusion where the right hand side F is defined by F t x vlf t x v O During the 60 s and 70 s a special class of differential inclusions was thoroughly investigated those of the form X t E A x t x 0 xo where A is a maximal monotone map This class of inclusions contains the class of gradient inclusions which generalize the usual gradient equations x t VV x t x O xo when V is a differentiable potential 2 Introduction

There are many instances when potential functions are not differentiable **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 **Resolution of Singularities** Steven Dale Cutkosky,2004 The notion of singularity is basic to mathematics In algebraic geometry the resolution of singularities by simple algebraic mappings is truly a fundamental problem It has a complete solution in characteristic zero and partial solutions in arbitrary characteristic The resolution of singularities in characteristic zero is a key result used in many subjects besides algebraic geometry such as differential equations dynamical systems number theory the theory of mathcal D modules topology and mathematical physics This book is a rigorous but instructional look at resolutions A simplified proof based on canonical resolutions is given for characteristic zero There are several proofs given for resolution of curves and surfaces in characteristic zero and arbitrary characteristic Besides explaining the tools needed for understanding resolutions Cutkosky explains the history and ideas providing valuable insight and intuition for the novice or expert There are many examples and exercises throughout the text The book is suitable for a second course on an exciting topic in algebraic geometry A core course on resolutions is contained in Chapters 2 through 6 Additional topics are covered in the final chapters The prerequisite is a course covering the basic notions of schemes and sheaves An Introductory Course on Mathematical Game Theory Julio González-Díaz,Ignacio García-Jurado,M. Gloria Fiestras-Janeiro,2021-10-22 Game theory provides a mathematical setting for analyzing competition and cooperation in interactive situations The theory has been famously applied in economics but is relevant in many other sciences such as political science biology and more recently computer science This book presents an introductory and up to date course on game theory addressed to mathematicians and economists and to other scientists having a basic mathematical background The book is self contained providing a formal description of the classic game theoretic concepts together with rigorous proofs of the main results in the field The theory is illustrated through abundant examples applications and exercises The style is distinctively concise while offering motivations and interpretations of the theory to make the book accessible to a wide readership The basic concepts and results of game theory are given a formal treatment and the mathematical tools necessary to develop them are carefully presented Cooperative games are explained in detail with bargaining and TU games being treated as part of a general framework The authors stress the relation between game theory and operations research The

book is suitable for a graduate or an advanced undergraduate course on game theory   Splitting Algorithms, Modern Operator Theory, and Applications Heinz H. Bauschke,Regina S. Burachik,D. Russell Luke,2019-11-06 This book brings together research articles and state of the art surveys in broad areas of optimization and numerical analysis with particular emphasis on algorithms The discussion also focuses on advances in monotone operator theory and other topics from variational analysis and nonsmooth optimization especially as they pertain to algorithms and concrete implementable methods The theory of monotone operators is a central framework for understanding and analyzing splitting algorithms Topics discussed in the volume were presented at the interdisciplinary workshop titled Splitting Algorithms Modern Operator Theory and Applications held in Oaxaca Mexico in September 2017 Dedicated to Jonathan M Borwein one of the most versatile mathematicians in contemporary history this compilation brings theory together with applications in novel and insightful ways   **Vector Measures, Integration and Related Topics** Guillermo Curbera,Gerd Mockenhaupt,Werner J. Ricker,2010-02-21 This volume contains a selection of articles on the theme vector measures integration and applications together with some related topics The articles consist of both survey style and original research papers are written by experts in thearea and present a succinct account of recent and up to date knowledge The topic is interdisciplinary by nature and involves areas such as measure and integration scalar vector and operator valued classical and harmonic analysis operator theory non commutative integration andfunctional analysis The material is of interest to experts young researchers and postgraduate students   **Large-Scale Scientific Computing** Ivan Lirkov,Svetozar Margenov,Jerzy Waśniewski,2014-06-26 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Conference on Large Scale Scientific Computations LSSC 2013 held in Sozopol Bulgaria in June 2013 The 74 revised full papers presented together with 5 plenary and invited papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on numerical modeling of fluids and structures control and uncertain systems Monte Carlo methods theory applications and distributed computing theoretical and algorithmic advances in transport problems applications of metaheuristics to large scale problems modeling and numerical simulation of processes in highly heterogeneous media large scale models numerical methods parallel computations and applications numerical solvers on many core systems cloud and grid computing for resource intensive scientific applications   **Convex and Set-Valued Analysis** Aram V. Arutyunov,Valeri Obukhovskii,2016-12-05 This textbook is devoted to a compressed and self contained exposition of two important parts of contemporary mathematics convex and set valued analysis In the first part properties of convex sets the theory of separation convex functions and their differentiability properties of convex cones in finite and infinite dimensional spaces are discussed The second part covers some important parts of set valued analysis There the properties of the Hausdorff metric and various continuity concepts of set valued maps are considered The great attention is paid also to measurable set valued functions continuous Lipschitz and some special types of selections fixed point and

coincidence theorems covering set valued maps topological degree theory and differential inclusions Contents Preface Part I Convex analysis Convex sets and their properties The convex hull of a set The interior of convex sets The affine hull of sets The relative interior of convex sets Separation theorems for convex sets Convex functions Closedness boundedness continuity and Lipschitz property of convex functions Conjugate functions Support functions Differentiability of convex functions and the subdifferential Convex cones A little more about convex cones in infinite dimensional spaces A problem of linear programming More about convex sets and convex hulls Part II Set valued analysis Introduction to the theory of topological and metric spaces The Hausdorff metric and the distance between sets Some fine properties of the Hausdorff metric Set valued maps Upper semicontinuous and lower semicontinuous set valued maps A base of topology of the spaceHc X Measurable set valued maps Measurable selections and measurable choice theorems The superposition set valued operator The Michael theorem and continuous selections Lipschitz selections Single valued approximations Special selections of set valued maps Differential inclusions Fixed points and coincidences of maps in metric spaces Stability of coincidence points and properties of covering maps Topological degree and fixed points of set valued maps in Banach spaces Existence results for differential inclusions via the fixed point method Notation Bibliography Index   Mathematical Systems Theory I Diederich Hinrichsen,Anthony J. Pritchard,2011-08-03 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions

Method of Guiding Functions in Problems of Nonlinear Analysis Valeri Obukhovskii,Pietro Zecca,Nguyen Van Loi,Sergei Kornev,2013-05-13 This book offers a self contained introduction to the theory of guiding functions methods which can be used to study the existence of periodic solutions and their bifurcations in ordinary differential equations differential inclusions and in control theory It starts with the basic concepts of nonlinear and multivalued analysis describes the classical aspects of the method of guiding functions and then presents recent findings only available in the research literature It describes essential applications in control theory the theory of bifurcations and physics making it a valuable resource not only for pure mathematicians but also for students and researchers working in applied mathematics the engineering sciences and physics   **Set-Valued, Convex, and Nonsmooth Analysis in Dynamics and Control** Rafal K. Goebel,2024-06-26 Set valued analysis convex analysis and nonsmooth analysis are relatively modern branches of mathematical analysis that have become increasingly relevant in current control theory and control engineering literature This book serves as a broad introduction to analytical tools in these fields and to their applications in dynamical and control systems and is the first to cover these topics with this scope and at this level Both continuous time and discrete time mutlivalued dynamics modeled by differential and difference inclusions are considered Set Valued Convex and Nonsmooth Analysis in Dynamics and Control An

Introduction is aimed at graduate students in control engineering and applied mathematics and researchers in control engineering who have no prior exposure to set valued convex and nonsmooth analysis The book will also be of interest to advanced undergraduate mathematics students and mathematicians with no prior exposure to the topic The expected mathematical background is a course on nonlinear differential equations dynamical systems and a course on real analysis Knowledge of some control theory is helpful but not essential   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   Pareto Optimality, Game Theory and Equilibria Panos M. Pardalos,A. Migdalas,Leonidas Pitsoulis,2008-07-02 This comprehensive work examines important recent developments and modern applications in the fields of optimization control game theory and equilibrium programming In particular the concepts of equilibrium and optimality are of immense practical importance affecting decision making problems regarding policy and strategies and in understanding and predicting systems in different application domains ranging from economics and engineering to military applications The book consists of 29 survey chapters written by distinguished researchers in the above areas   **Representation Theory of Finite Groups: Algebra and Arithmetic** Steven H. Weintraub,2003 We explore widely in the valley of ordinary representations and we take the reader over the mountain pass leading to the valley of modular representations to a point from which s he can survey this valley but we do not attempt to widely explore it We hope the reader will be sufficiently fascinated by the scenery to further explore both valleys on his her own from the Preface Representation theory plays important roles in geometry algebra analysis and mathematical physics In particular representation theory has been one of the great tools in the study and classification of finite groups There are some beautiful results that come from representation theory Frobenius s Theorem Burnside s Theorem Artin s Theorem Brauer s Theorem all of which are covered in this textbook Some seem uninspiring at first but prove to be quite useful Others are clearly deep from the outset And when a group finite or otherwise acts on something else as a set of symmetries for example one ends up with a natural representation of the group This book is an introduction to the representation theory of finite groups from an algebraic point of view regarding representations as modules over the group

algebra The approach is to develop the requisite algebra in reasonable generality and then to specialize it to the case of group representations Methods and results particular to group representations such as characters and induced representations are developed in depth Arithmetic comes into play when considering the field of definition of a representation especially for subfields of the complex numbers The book has an extensive development of the semisimple case where the characteristic of the field is zero or is prime to the order of the group and builds the foundations of the modular case where the characteristic of the field divides the order of the group The book assumes only the material of a standard graduate course in algebra It is suitable as a text for a year long graduate course The subject is of interest to students of algebra number theory and algebraic geometry The systematic treatment presented here makes the book also valuable as a reference *Condensing Multivalued Maps and Semilinear Differential Inclusions in Banach Spaces* Mikhail I. Kamenskii,Valeri V. Obukhovskii,Pietro Zecca,2011-07-20 The theory of set valued maps and of differential inclusion is developed in recent years both as a field of his own and as an approach to control theory The book deals with the theory of semilinear differential inclusions in infinite dimensional spaces In this setting problems of interest to applications do not suppose neither convexity of the map or compactness of the multi operators These assumption implies the development of the theory of measure of noncompactness and the construction of a degree theory for condensing mapping Of particular interest is the approach to the case when the linear part is a generator of a condensing strongly continuous semigroup In this context the existence of solutions for the Cauchy and periodic problems are proved as well as the topological properties of the solution sets Examples of applications to the control of transmission line and to hybrid systems are presented

Lectures on the Orbit Method A. A. Kirillov,2025-03-21 Isaac Newton encrypted his discoveries in analysis in the form of an anagram which deciphers to the sentence It is worthwhile to solve differential equations Accordingly one can express the main idea behind the Orbit Method by saying It is worthwhile to study coadjoint orbits The orbit method was introduced by the author A A Kirillov in the 1960s and remains a useful and powerful tool in areas such as Lie theory group representations integrable systems complex and symplectic geometry and mathematical physics This book describes the essence of the orbit method for non experts and gives the first systematic detailed and self contained exposition of the method It starts with a convenient User s Guide and contains numerous examples It can be used as a text for a graduate course as well as a handbook for non experts and a reference book for research mathematicians and mathematical physicists

Advances In The Applications Of Nonstandard Finite Difference Schemes Ronald E Mickens,2005-10-25 This volume provides a concise introduction to the methodology of nonstandard finite difference NSFD schemes construction and shows how they can be applied to the numerical integration of differential equations occurring in the natural biomedical and engineering sciences These methods had their genesis in the work of Mickens in the 1990 s and are now beginning to be widely studied and applied by other researchers The importance of the book derives from its clear and direct explanation of

NSFD in the introductory chapter along with a broad discussion of the future directions needed to advance the topic   *A Course on the Web Graph* Anthony Bonato,2008 A Course on the Web Graph provides a comprehensive introduction to state of the art research on the applications of graph theory to real world networks such as the web graph It is the first mathematically rigorous textbook discussing both models of the web graph and algorithms for searching the web After introducing key tools required for the study of web graph mathematics an overview is given of the most widely studied models for the web graph A discussion of popular web search algorithms e g PageRank is followed by additional topics such as applications of infinite graph theory to the web graph spectral properties of power law graphs domination in the web graph and the spread of viruses in networks The book is based on a graduate course taught at the AARMS 2006 Summer School at Dalhousie University As such it is self contained and includes over 100 exercises The reader of the book will gain a working knowledge of current research in graph theory and its modern applications In addition the reader will learn first hand about models of the web and the mathematics underlying modern search engines Publisher s description

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