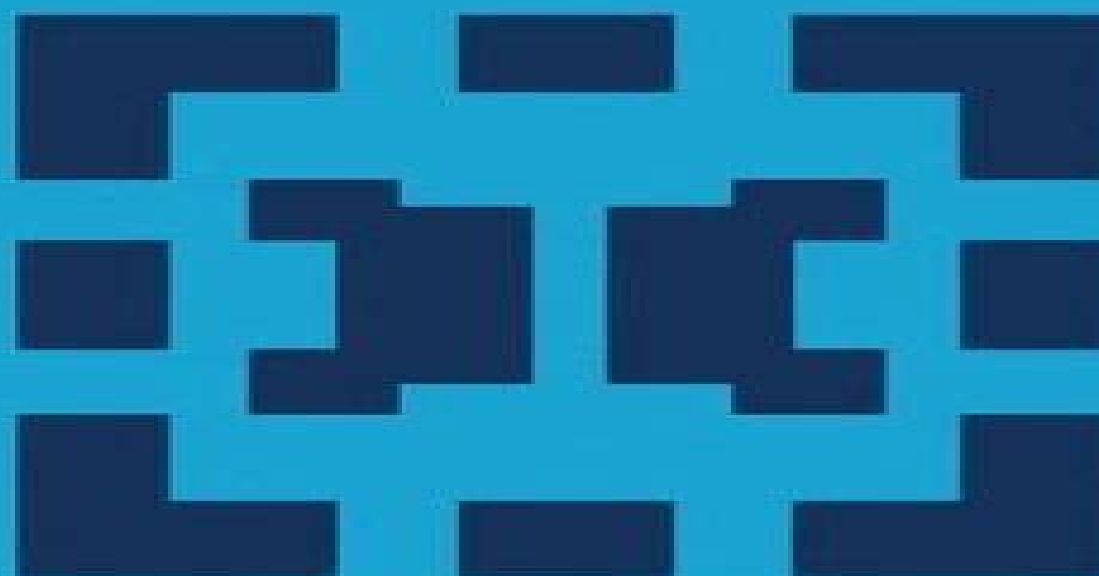


**Mathematics and Its Applications**

**V. V. Filippov**

**Basic Topological  
Structures of Ordinary  
Differential Equations**



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# Basic Topological Structures Of Ordinary Differential Equations

**Wilfrid Perruquetti, Jean-Pierre Barbot**



## **Basic Topological Structures Of Ordinary Differential Equations:**

**Basic Topological Structures of Ordinary Differential Equations** V. V. Filippov, 2014-01-15      Basic Topological Structures of Ordinary Differential Equations V.V. Filippov, 2013-03-09 The aim of this book is a detailed study of topological effects related to continuity of the dependence of solutions on initial values and parameters This allows us to develop cheaply a theory which deals easily with equations having singularities and with equations with multivalued right hand sides differential inclusions An explicit description of corresponding topological structures expands the theory in the case of equations with continuous right hand sides also In reality this is a new science where Ordinary Differential Equations General Topology Integration theory and Functional Analysis meet In what concerns equations with discontinuities and differential inclusions we do not restrict the consideration to the Cauchy problem but we show how to develop an advanced theory whose volume is commensurable with the volume of the existing theory of Ordinary Differential Equations The level of the account rises in the book step by step from second year student to working scientist      **Ordinary Differential Equations and Applications II: with Maple Illustrations** Benjamin Oyediran Oyelami, 2024-12-19 Ordinary Differential Equations and Applications II With Maple Illustrations integrates fundamental theories of Ordinary Differential Equations ODEs with practical applications and Maple based solutions This comprehensive textbook covers vector valued differential equations matrix solutions stability methods and periodic systems Using Maple and MapleSim software readers learn symbolic solutions plotting techniques 2D 3D animation for ODE problems and simulations for engineering systems This book is ideal for undergraduate and postgraduate students in mathematics physics economics and engineering as well as researchers and professionals needing advanced applications of ODEs Key Features Comprehensive introduction to ODE concepts and real life applications Solutions for initial value problems using Maple and MapleSim software Analysis of stability using Routh Hurwitz and Lyapunov methods Models of neural firing avian influenza and biological populations Practical guidance on MapleSim for multi domain simulations code generation and Monte Carlo simulation      *A Short Course in Ordinary Differential Equations* Qingkai Kong, 2014-10-21 This text is a rigorous treatment of the basic qualitative theory of ordinary differential equations at the beginning graduate level Designed as a flexible one semester course but offering enough material for two semesters A Short Course covers core topics such as initial value problems linear differential equations Lyapunov stability dynamical systems and the Poincaré Bendixson theorem and bifurcation theory and second order topics including oscillation theory boundary value problems and Sturm Liouville problems The presentation is clear and easy to understand with figures and copious examples illustrating the meaning of and motivation behind definitions hypotheses and general theorems A thoughtfully conceived selection of exercises together with answers and hints reinforce the reader's understanding of the material Prerequisites are limited to advanced calculus and the elementary theory of differential equations and linear algebra making the text suitable for senior undergraduates as well      Topological Fixed

Point Theory of Multivalued Mappings Lech Górniewicz, 2006-06-03 This book is an attempt to give a systematic presentation of results and methods which concern the fixed point theory of multivalued mappings and some of its applications In selecting the material we have restricted ourselves to studying topological methods in the fixed point theory of multivalued mappings and applications mainly to differential inclusions Thus in Chapter III the approximation on the graph method in fixed point theory of multivalued mappings is presented Chapter IV is devoted to the homological methods and contains more general results e g the Lefschetz Fixed Point Theorem the fixed point index and the topological degree theory In Chapter V applications to some special problems in fixed point theory are formulated Then in the last chapter a direct applications to differential inclusions are presented Note that Chapters I and II have an auxiliary character and only results connected with the Banach Contraction Principle see Chapter II are strictly related to topological methods in the fixed point theory In the last section of our book see Section 75 we give a bibliographical guide and also signal some further results which are not contained in our monograph The author thanks several colleagues and my wife Maria who read and commented on the manuscript These include J Andres A Buraczewski G Gabor A Górká M Górniewicz S Park and A Wiczorek The author wish to express his gratitude to P Konstanty for preparing the electronic version of this monograph

**Topological Fixed Point Principles for Boundary Value Problems** J. Andres, Lech Górniewicz, 2013-04-17 The book is devoted to the topological fixed point theory both for single valued and multivalued mappings in locally convex spaces including its application to boundary value problems for ordinary differential equations inclusions and to multivalued dynamical systems It is the first monograph dealing with the topological fixed point theory in non metric spaces Although the theoretical material was tendentiously selected with respect to applications the text is self contained Therefore three appendices concerning almost periodic and derivo periodic single valued multivalued functions and multivalued fractals are supplied to the main three chapters

**Open Problems in Topology II** Elliott M. Pearl, 2011-08-11 This volume is a collection of surveys of research problems in topology and its applications The topics covered include general topology set theoretic topology continuum theory topological algebra dynamical systems computational topology and functional analysis New surveys of research problems in topology New perspectives on classic problems Representative surveys of research groups from all around the world

**Global Analysis in Linear Differential Equations** M. Kohno, 1999-04-30 Since the initiative works for global analysis of linear differential equations by G G Stokes and B Riemann in 1857 the Airy function and the Gauss hypergeometric function became the most important and the greatest practical special functions which have a variety of applications to mathematical science physics and engineering The effectivity of these functions is essentially due to their behavior in the large For instance the Airy function plays a basic role in the asymptotic analysis of many functions arising as solutions of differential equations in several problems of applied mathematics In case of the employment of its behavior one should always pay attention to the Stokes phenomenon On the other hand as is well known the Gauss hypergeometric function arises in all fields of mathematics e g in

number theory in the theory of groups and in analysis itself It is not too much to say that all power series are special or extended cases of the hypergeometric series For the full use of its properties one needs connection formulas or contiguous relations

**The Gibbs Phenomenon in Fourier Analysis, Splines and Wavelet Approximations** A.J. Jerri,1998-08-31 This book represents the first attempt at a unified picture for the presence of the Gibbs or Gibbs Wilbraham phenomenon in applications its analysis and the different methods of filtering it out The analysis and filtering cover the familiar Gibbs phenomenon in Fourier series and integral representations of functions with jump discontinuities In addition it will include other representations such as general orthogonal series expansions general integral transforms splines approximation and continuous as well as discrete wavelet approximations The material in this book is presented in a manner accessible to upperclassmen and graduate students in science and engineering as well as researchers who may face the Gibbs phenomenon in the varied applications that involve the Fourier and the other approximations of functions with jump discontinuities Those with more advanced backgrounds in analysis will find basic material results and motivations from which they can begin to develop deeper and more general results We must emphasize that the aim of this book the first on the subject to satisfy such a diverse audience is quite difficult In particular our detailed derivations and their illustrations for an introductory book may very well sound repetitive to the experts in the field who are expecting a research monograph To answer the concern of the researchers we can only hope that this book will prove helpful as a basic reference for their research papers

Topological Methods for Delay and Ordinary Differential Equations Pablo Amster,Pierluigi Benevieri,2024-08-12 This volume explores the application of topological techniques in the study of delay and ordinary differential equations with a particular focus on continuum mechanics Chapters written by internationally recognized researchers in the field present results on problems of existence multiplicity localization bifurcation of solutions and more Topological methods are used throughout including degree theory fixed point index theory and classical and recent fixed point theorems A wide variety of applications to continuum mechanics are provided as well such as chemostats non Newtonian fluid flow and flows in phase space Topological Methods for Delay and Ordinary Differential Equations will be a valuable resource for researchers interested in differential equations functional analysis topology and the applied sciences

**New Foundations for Applied Electromagnetics: The Spatial Structure of Electromagnetic Fields** Said Mikki,Yahia Antar,2016-05-31 This comprehensive new resource focuses on applied electromagnetics and takes readers beyond the conventional theory with the use of contemporary mathematics to improve the practical use of electromagnetics in emerging areas of field communications wireless power transfer metamaterials MIMO and direction of arrival systems The book explores the existing and novel theories and principles of electromagnetics in order to help engineers analyze and design devices for today's applications in wireless power transfers NFC and metamaterials This book is organized into clear and logical sections spanning from fundamental theory to applications promoting clear understanding throughout This

resource presents the theory of electromagnetic near fields including chapters on reactive energy spatial and spectral theory the scalar antenna and the morphogenesis of electromagnetic radiation in the near field zone The Antenna Current Green s Function Formalism is explored with an emphasis on the foundations the organic interrelationships between the fundamental operational modes of general antenna systems and the spectral approach to antenna to antenna interactions The book offers perspective on nonlocal metamaterials including the material response theory the far field theory and the near field theory

Handbook of Differential Equations: Ordinary Differential Equations A. Canada,P. Drabek,A. Fonda,2006-08-21 This handbook is the third volume in a series of volumes devoted to self contained and up to date surveys in the tehory of ordinary differential equations written by leading researchers in the area All contributors have made an additional effort to achieve readability for mathematicians and scientists from other related fields so that the chapters have been made accessible to a wide audience These ideas faithfully reflect the spirit of this multi volume and hopefully it becomes a very useful tool for reseach learing and teaching This volumes consists of seven chapters covering a variety of problems in ordinary differential equations Both pure mathematical research and real word applications are reflected by the contributions to this volume Covers a variety of problems in ordinary differential equations Pure mathematical and real world applications Written for mathematicians and scientists of many related fields

Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

**Harmonic Analysis in Hypercomplex Systems** Yu.M. Berezansky,A.A. Kalyuzhnyi,2013-06-29 First works related to the topics covered in this book belong to J Delsarte and B M Le vitan and appeared since 1938 In these works the families of operators that generalize usual translation operators were investigated and the corresponding harmonic analysis was constructed Later starting from 1950 it was noticed that in such constructions

an important role is played by the fact that the kernels of the corresponding convolutions of functions are nonnegative and by the properties of the normed algebras generated by these convolutions That was the way the notion of hypercomplex system with continuous basis appeared A hypercomplex system is a normed algebra of functions on a locally compact space  $Q$  the basis of this hypercomplex system Later similar objects hypergroups were introduced which have complex valued measures on  $Q$  as elements and convolution defined to be essentially the convolution of functionals and dual to the original convolution if measures are regarded as functionals on the space of continuous functions on  $Q$  However until 1991 the time when this book was written in Russian there were no monographs containing fundamentals of the theory with an exception of a short section in the book by Yu M Berezansky and Yu G Kondratiev BeKo The authors wanted to give an introduction to the theory and cover the most important subsequent results and examples **Mechanical Engineer's Handbook** Dan B.

Marghitu,2001-08-20 The Mechanical Engineer's Handbook was developed and written specifically to fill a need for mechanical engineers and mechanical engineering students With over 1000 pages 550 illustrations and 26 tables the Mechanical Engineer's Handbook is comprehensive compact and durable The Handbook covers major areas of mechanical engineering with succinct coverage of the definitions formulas examples theory proofs and explanations of all principle subject areas The Handbook is an essential practical companion for all mechanical engineering students with core coverage of nearly all relevant courses included Also anyone preparing for the engineering licensing examinations will find this handbook to be an invaluable aid Useful analytical techniques provide the student and practicing engineer with powerful tools for mechanical design This book is designed to be a portable reference with a depth of coverage not found in pocketbooks of formulas and definitions and without the verbosity high price and excessive size of the huge encyclopedic handbooks If an engineer needs a quick reference for a wide array of information yet does not have a full library of textbooks or does not want to spend the extra time and effort necessary to search and carry a six pound handbook this book is for them Covers all major areas of mechanical engineering with succinct coverage of the definitions formulae examples theory proofs and explanations of all principle subject areas Boasts over 1000 pages 550 illustrations and 26 tables Is comprehensive yet affordable compact and durable with strong flexible binding Possesses a true handbook feel in size and design with a full colour cover thumb index cross references and useful printed endpapers Hilbert Spaces, Wavelets, Generalised Functions and Modern Quantum Mechanics W.-H. Steeb,2013-03-07 This book gives a comprehensive introduction to modern quantum mechanics emphasising the underlying Hilbert space theory and generalised function theory All the major modern techniques and approaches used in quantum mechanics are introduced such as Berry phase coherent and squeezed states quantum computing solitons and quantum mechanics Audience The book is suitable for graduate students in physics and mathematics

Ordinary Differential Equations: Basics and Beyond David G. Schaeffer,John W. Cain,2016-11-10 This book develops the theory of ordinary differential equations ODEs starting from an introductory level with no prior experience in ODEs assumed

through to a graduate level treatment of the qualitative theory including bifurcation theory but not chaos While proofs are rigorous the exposition is reader friendly aiming for the informality of face to face interactions A unique feature of this book is the integration of rigorous theory with numerous applications of scientific interest Besides providing motivation this synthesis clarifies the theory and enhances scientific literacy Other features include i a wealth of exercises at various levels along with commentary that explains why they matter ii figures with consistent color conventions to identify nullclines periodic orbits stable and unstable manifolds and iii a dedicated website with software templates problem solutions and other resources supporting the text [www.math.duke.edu/ode/book](http://www.math.duke.edu/ode/book) Given its many applications the book may be used comfortably in science and engineering courses as well as in mathematics courses Its level is accessible to upper level undergraduates but still appropriate for graduate students The thoughtful presentation which anticipates many confusions of beginning students makes the book suitable for a teaching environment that emphasizes self directed active learning including the so called inverted classroom

**Evolution Equations** Gisele Ruiz Goldstein,Rainer Nagel,Silvia Romanelli,2019-04-24

Celebrating the work of renowned mathematician Jerome A Goldstein this reference compiles original research on the theory and application of evolution equations to stochastics physics engineering biology and finance The text explores a wide range of topics in linear and nonlinear semigroup theory operator theory functional analysis and li *Chaos in Automatic Control* Wilfrid Perruquetti,Jean-Pierre Barbot,2018-10-03 Chaotic behavior arises in a variety of control settings In some cases it is beneficial to remove this behavior in others introducing or taking advantage of the existing chaotic components can be useful for example in cryptography *Chaos in Automatic Control* surveys the latest methods for inserting taking advantage of or removing chaos in a variety of applications This book supplies the theoretical and pedagogical basis of chaos in control systems along with new concepts and recent developments in the field Presented in three parts the book examines open loop analysis closed loop control and applications of chaos in control systems The first section builds a background in the mathematics of ordinary differential and difference equations on which the remainder of the book is based It includes an introductory chapter by Christian Mira a pioneer in chaos research The next section explores solutions to problems arising in observation and control of closed loop chaotic control systems These include model independent control methods strategies such as H infinity and sliding modes polytopic observers normal forms using homogeneous transformations and observability normal forms The final section explores applications in wireless transmission optics power electronics and cryptography *Chaos in Automatic Control* distills the latest thinking in chaos while relating it to the most recent developments and applications in control It serves as a platform for developing more robust autonomous intelligent and adaptive systems

**Mathematical Tools for Physicists** George L. Trigg,2006-08-21 *Mathematical Tools for Physicists* is a unique collection of 18 carefully reviewed articles each one written by a renowned expert working in the relevant field The result is beneficial to both advanced students as well as scientists at work the former will appreciate it as a comprehensive introduction while



the latter will use it as a ready reference The contributions range from fundamental methods right up to the latest applications including Algebraic analytic geometric methods Symmetries and conservation laws Mathematical modeling Quantum computation The emphasis throughout is ensuring quick access to the information sought and each article features an abstract a detailed table of contents continuous cross referencing references to the most relevant publications in the field and suggestions for further reading both introductory as well as highly specialized In addition a comprehensive index provides easy access to the vast number of key words extending beyond the range of the headlines

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