Semigroups. Translations of Mathematical Monographs, Volume 3.

E. S. Ljapin

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Anthony N. Michel, Ling Hou, Derong Liu

Semigroups and Automata Uno Kaljulaid,2006-02-16 This volume provides a selection of previously published papers and manuscripts of Uno Kaljulaid an eminent Estonian algebraist of the last century The central part of the book is the English translation of Kaljulaid s 1979 Candidate thesis which originally was typewritten in Russian and manufactured in not so many copies The thesis is devoted to representation theory in the spirit of his thesis advisor B I Plotkin representations of semigroups and algebras especially extension to this situation and application of the notion of triangular product of representations for groups introduced by Plotkin Through representation theory Kaljulaid became also interested in automata theory which at a later phase became his main area of interest Another field of research concerns combinatorics Besides being an outstanding and most dedicated mathematician Uno Kaljulaid was also very much interested in the history of mathematics In particular he took a vivid interest in the life and work of the great 19th century Dorpat Tartu algebraist Th Molien Kaljulaid was also very interested in teaching and exposition or popularization of mathematics Some of his more popular scientific papers were published in an Estonian language journal Matemaatika ja Kaasaeg Mathematics and Our Age Among them there is a whole series of papers about algebraic matters culminating in a brilliant elementary although partly rather philosophical essay devoted to Galois theory Another such series is his excellent essay of Diophantine Geometry in various installments followed by his loge to another of his teachers Yu I Manin It is believed that the inclusion of these papers here will make it more interesting for beginners and perhaps even contribute to attracting young people to mathematics

Semigroups: Theory and Applications Helmut Jürgensen, Gerard Lallement, Hanns J. Weinert, 2006-11-14 Probability Measures on Semigroups: Convolution Products, Random Walks and Random Matrices Göran Högnäs, Arunava Mukherjea, 2013-03-09 A Scientific American article on chaos see Crutchfield et al 1986 illus trates a very persuasive example of recurrence A painting of Henri Poincare or rather a digitized version of it is stretched and cut to produce a mildly distorted image of Poincare The same procedure is applied to the distorted image and the process is repeated over and over again on the successively more and more blurred images After a dozen repetitions nothing seems to be left of the original portrait Miraculously structured images appear briefly as we continue to apply the distortion procedure to successive images After 241 iterations the original picture reappears unchanged Apparently the pixels of the Poincare portrait were moving about in accordance with a strictly deterministic rule More importantly the set of all pixels the whole portrait was transformed by the distortion mechanism In this exam ple the transformation seems to have been a reversible one since the original was faithfully recreated It is not very farfetched to introduce a certain amount of randomness and irreversibility in the above example Think of a random miscoloring of some pixels or of inadvertently giving a pixel the color of its neighbor The methods in this book are geared towards being applicable to the asymp totics of such transformation processes The transformations form a semigroup in a natural way we want to investigate the long term behavior of random elements of this

semigroup Handbook of Elasticity Solutions Mark L. Kachanov, B. Shafiro, Igor Tsukrov, 2003-11-30 This Handbook is intended as a desk reference for researchers students and engineers working in various areas of solid mechanics and quantitative materials science It contains a broad range of elasticity solutions In particular it covers the following topics Basic equations in various coordinate systems Green's functions for isotropic and anisotropic solids Cracks in two and three dimensional solids Eshelby s problems and related results Stress concentrations at inhomogeneities Contact problems Thermoelasticity The solutions have been collected from a large number of monographs and research articles Some of the presented results were obtained only recently and are not easily available All solutions have been thoroughly checked and transformed to a userfriendly form Analytical Methods for Kolmogorov Equations Luca Lorenzi, 2016-10-04 The second edition of this book has a new title that more accurately reflects the table of contents Over the past few years many new results have been proven in the field of partial differential equations. This edition takes those new results into account in particular the study of nonautonomous operators with unbounded coefficients which has received great attention Additionally this edition is the first to use a unified approach to contain the new results in a singular place Scientia Magna Vol. 6, No. 1, 2010 Zhang Wenpeng, 2010 Papers on Smarandache's codification used in computer programming smarandacheials totient and congruence functions sequences irrational constants in number theory multi space and geometries

Semigroups, Boundary Value Problems and Markov Processes Kazuaki Taira, 2014-08-07 A careful and accessible exposition of functional analytic methods in stochastic analysis is provided in this book It focuses on the interrelationship between three subjects in analysis Markov processes semi groups and elliptic boundary value problems The author studies a general class of elliptic boundary value problems for second order Waldenfels integro differential operators in partial differential equations and proves that this class of elliptic boundary value problems provides a general class of Feller semigroups in functional analysis As an application the author constructs a general class of Markov processes in probability in which a Markovian particle moves both by jumps and continuously in the state space until it dies at the time when it reaches the set where the particle is definitely absorbed Augmenting the 1st edition published in 2004 this edition includes four new chapters and eight re worked and expanded chapters It is amply illustrated and all chapters are rounded off with Notes and Comments where bibliographical references are primarily discussed Thanks to the kind feedback from many readers some errors in the first edition have been corrected In order to keep the book up to date new references have been added to the bibliography Researchers and graduate students interested in PDEs functional analysis and probability will find this volume useful Scientific Information Notes, Science Information News ,1961 **Mathematical Analysis** and Applications Themistocles M. Rassias, Panos M. Pardalos, 2019-12-12 An international community of experts scientists comprise the research and survey contributions in this volume which covers a broad spectrum of areas in which analysis plays a central role Contributions discuss theory and problems in real and complex analysis functional analysis approximation theory operator theory analytic inequalities the Radon transform nonlinear analysis and various applications of interdisciplinary research some are also devoted to specific applications such as the three body problem finite element analysis in fluid mechanics algorithms for difference of monotone operators a vibrational approach to a financial problem and more This volume is useful to graduate students and researchers working in mathematics physics engineering and economics

Differential and Integral Equations ,2002 Applications of Hypergroups and Related Measure Algebras, 1995-02-28 The most important single thing about this conference was that it brought together for the first time representatives of all major groups of users of hypergroups They talked to each other about how they were using hypergroups in fields as diverse as special functions probability theory representation theory measure algebras Hopf algebras and Hecke algebras This led to fireworks from the Introduction Hypergroups occur in a wide variety of contexts and mathematicians the world over have been discovering this same mathematical structure hidden in very different applications. The diverse viewpoints on the subject have led to the need for a common perspective if not a common theory Presenting the proceedings of a Joint Summer Research Conference held in Seattle in the summer of 1993 this book will serve as a valuable starting point and reference tool for the wide range of users of hypergroups and make it easier for an even larger audience to use these structures in their New Trends in Differential and Difference Equations and Applications Feliz Manuel Minhós, João Fialho, 2019-10-14 This Special Issue aims to be a compilation of new results in the areas of differential and difference Equations covering boundary value problems systems of differential and difference equations as well as analytical and numerical methods. The objective is to provide an overview of techniques used in these different areas and to emphasize their applicability to real life phenomena by the inclusion of examples These examples not only clarify the theoretical results presented but also provide insight on how to apply for future works the techniques used Science East to West .1963

Integrable Systems and Algebraic Geometry: Volume 1 Ron Donagi, Tony Shaska, 2020-04-02 Created as a celebration of mathematical pioneer Emma Previato this comprehensive book highlights the connections between algebraic geometry and integrable systems differential equations mathematical physics and many other areas The authors many of whom have been at the forefront of research into these topics for the last decades have all been influenced by Previato's research as her collaborators students or colleagues. The diverse articles in the book demonstrate the wide scope of Previato's work and the inclusion of several survey and introductory articles makes the text accessible to graduate students and non experts as well as researchers. This first volume covers a wide range of areas related to integrable systems often emphasizing the deep connections with algebraic geometry. Common themes include theta functions and Abelian varieties Lax equations integrable hierarchies. Hamiltonian flows and difference operators. These powerful tools are applied to spinning top Hitchin Painleve and many other notable special equations.

Function Spaces and Partial Differential Equations. Ali
Taheri, 2015-07-30. This is a book written primarily for graduate students and early researchers in the fields of Analysis and

Partial Differential Equations PDEs Coverage of the material is essentially self contained extensive and novel with great attention to details and rigour The strength of the book primarily lies in its clear and detailed explanations scope and coverage highlighting and presenting deep and profound inter connections between different related and seemingly unrelated disciplines within classical and modern mathematics and above all the extensive collection of examples worked out and hinted exercises There are well over 700 exercises of varying level leading the reader from the basics to the most advanced levels and frontiers of research The book can be used either for independent study or for a year long graduate level course In fact it has its origin in a year long graduate course taught by the author in Oxford in 2004 5 and various parts of it in other institutions later on A good number of distinguished researchers and faculty in mathematics worldwide have started their research career from the course that formed the basis for this book **Stochastic Analysis in Discrete and Continuous Settings** Nicolas Privault, 2009-07-14 This monograph is an introduction to some aspects of stochastic analysis in the framework of normal martingales in both discrete and continuous time The text is mostly self contained except for Section 5 7 that requires some background in geometry and should be accessible to graduate students and researchers having already received a basic training in probability Prereg sites are mostly limited to a knowledge of measure theory and probability namely algebras expectations and conditional expectations. Ashortint duction to stochastic calculus for continuous and jump processes is given in Chapter 2 using normal martingales whose predictable quadratic variation is the Lebesque measure There already exists several books devoted to stochastic analysis for c tinuous di usion processes on Gaussian and Wiener spaces of e g 51 63 65 72 83 84 92 128 134 143 146 147 The particular f ture of this text is to simultaneously consider continuous processes and jump processes in the uni ed framework of normal martingales Stability of Dynamical Systems Anthony N. Michel, Ling Hou, Derong Liu, 2015-03-30 The second edition of this textbook provides a single source for the analysis of system models represented by continuous time and discrete time finite dimensional and infinite dimensional and continuous and discontinuous dynamical systems For these system models it presents results which comprise the classical Lyapunov stability theory involving monotonic Lyapunov functions as well as corresponding contemporary stability results involving non monotonic Lyapunov functions Specific examples from several diverse areas are given to demonstrate the applicability of the developed theory to many important classes of systems including digital control systems nonlinear regulator systems pulse width modulated feedback control systems and artificial neural networks The authors cover the following four general topics Representation and modeling of dynamical systems of the types described above Presentation of Lyapunov and Lagrange stability theory for dynamical systems defined on general metric spaces involving monotonic and non monotonic Lyapunov functions Specialization of this stability theory to finite dimensional dynamical systems Specialization of this stability theory to infinite dimensional dynamical systems Replete with examples and requiring only a basic knowledge of linear algebra analysis and differential equations this book can be used as a textbook for graduate courses in stability theory

of dynamical systems It may also serve as a self study reference for graduate students researchers and practitioners in applied mathematics engineering computer science economics and the physical and life sciences Review of the First Edition The authors have done an excellent job maintaining the rigor of the presentation and in providing standalone statements for diverse types of systems This is a very interesting book which complements the existing literature It is clearly written and difficult concepts are illustrated by means of good examples Alessandro Astolfi IEEE Control Systems Magazine February Differential Equations, Mathematical Physics, and Applications: Selim Grigorievich Krein Centennial Peter 2009 Kuchment, Evgeny Semenov, 2019-07-22 This is the second of two volumes dedicated to the centennial of the distinguished mathematician Selim Grigorievich Krein The companion volume is Contemporary Mathematics Volume 733 Krein was a major contributor to functional analysis operator theory partial differential equations fluid dynamics and other areas and the author of several influential monographs in these areas He was a prolific teacher graduating 83 Ph D students Krein also created and ran for many years the annual Voronezh Winter Mathematical Schools which significantly influenced mathematical life in the former Soviet Union The articles contained in this volume are written by prominent mathematicians former students and colleagues of Selim Krein as well as lecturers and participants of Voronezh Winter Schools They are devoted to a variety of contemporary problems in ordinary and partial differential equations fluid dynamics and various Viability, Invariance and Applications Ovidiu Carja, Mihai Necula, Ioan I. Vrabie, 2007-07-18 The book is an applications almost self contained presentation of the most important concepts and results in viability and invariance The viability of a set K with respect to a given function or multi function F defined on it describes the property that for each initial data in K the differential equation or inclusion driven by that function or multi function to have at least one solution The invariance of a set K with respect to a function or multi function F defined on a larger set D is that property which says that each solution of the differential equation or inclusion driven by F and issuing in K remains in K at least for a short time The book includes the most important necessary and sufficient conditions for viability starting with Nagumo s Viability Theorem for ordinary differential equations with continuous right hand sides and continuing with the corresponding extensions either to differential inclusions or to semilinear or even fully nonlinear evolution equations systems and inclusions In the latter i e multi valued cases the results based on two completely new tangency concepts all due to the authors are original and extend significantly in several directions their well known classical counterparts New concepts for multi functions as the classical tangent vectors for functions Provides the very general and necessary conditions for viability in the case of differential inclusions semilinear and fully nonlinear evolution inclusions Clarifying examples illustrations and numerous problems completely and carefully solved Illustrates the applications from theory into practice Very clear and elegant style

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