

Alexander Koshelev

Regularity Problem for Quasilinear Elliptic and Parabolic Systems

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Regularity Problem For Quasilinear Elliptic And Parabolic Systems

Vassili N. Kolokoltsov



Regularity Problem For Quasilinear Elliptic And Parabolic Systems:

Regularity Problem for Quasilinear Elliptic and Parabolic Systems Alexander Koshelev, 2006-11-14 The smoothness of solutions for quasilinear systems is one of the most important problems in modern mathematical physics This book deals with regular or strong solutions for general quasilinear second order elliptic and parabolic systems Applications in solid mechanics hydrodynamics elasticity and plasticity are described The results presented are based on two main ideas the universal iterative method and explicit sometimes sharp coercivity estimates in weighted spaces Readers are assumed to have a standard background in analysis and PDEs

Nonlinear Evolution Equations Nina Nikolaevna Uraltseva, 1995-05-19 This collection focuses on nonlinear problems in partial differential equations Most of the papers are based on lectures presented at the seminar on partial differential equations and mathematical physics at St Petersburg University Among the topics explored are the existence and properties of solutions of various classes of nonlinear evolution equations nonlinear imbedding theorems bifurcations of solutions and equations of mathematical physics Navier Stokes type equations and the nonlinear Schrodinger equation The book will be useful to researchers and graduate students working in partial differential equations and mathematical physics

Regularity Results for Nonlinear Elliptic Systems and Applications Alain Bensoussan, Jens Frehse, 2013-04-17 The book collects many techniques that are helpful in obtaining regularity results for solutions of nonlinear systems of partial differential equations They are then applied in various cases to provide useful examples and relevant results particularly in fields like fluid mechanics solid mechanics semiconductor theory or game theory In general these techniques are scattered in the journal literature and developed in the strict context of a given model In the book they are presented independently of specific models so that the main ideas are explained while remaining applicable to various situations Such a presentation will facilitate application and implementation by researchers as well as teaching to students

Numerical Methods for Nonlinear Elliptic Differential Equations Klaus Böhmer, 2010-10-07 Boehmer systematically handles the different numerical methods for nonlinear elliptic problems

Elliptic Boundary Value Problems of Second Order in Piecewise Smooth Domains Michail Borsuk, Vladimir Kondratiev, 2006-01-12 The book contains a systematic treatment of the qualitative theory of elliptic boundary value problems for linear and quasilinear second order equations in non smooth domains The authors concentrate on the following fundamental results sharp estimates for strong and weak solutions solvability of the boundary value problems regularity assertions for solutions near singular points Key features New the Hardy Friedrichs Wirtinger type inequalities as well as new integral inequalities related to the Cauchy problem for a differential equation Precise exponents of the solution decreasing rate near boundary singular points and best possible conditions for this The question about the influence of the coefficients smoothness on the regularity of solutions New existence theorems for the Dirichlet problem for linear and quasilinear equations in domains with conical points The precise power modulus of continuity at singular boundary point for solutions of the Dirichlet mixed and the Robin

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Discovery and Data Mining PAKDD 99 held in Beijing China in April 1999 The 29 revised full papers presented together with 37 short papers were carefully selected from a total of 158 submissions The book is divided into sections on emerging KDD technology association rules feature selection and generation mining in semi unstructured data interestingness surprisingness and exceptions rough sets fuzzy logic and neural networks induction classification and clustering visualization causal models and graph based methods agent based and distributed data mining and advanced topics and new methodologies

Elliptic Genera and Vertex Operator Super-Algebras Hirotaka Tamanoi, 1999-06-21 This monograph deals with two aspects of the theory of elliptic genus its topological aspect involving elliptic functions and its representation theoretic aspect involving vertex operator super algebras For the second aspect elliptic genera are shown to have the structure of modules over certain vertex operator super algebras The vertex operators corresponding to parallel tensor fields on closed Riemannian Spin K hler manifolds such as Riemannian tensors and K hler forms are shown to give rise to Virasoro algebras and affine Lie algebras This monograph is chiefly intended for topologists and it includes accounts on topics outside of topology such as vertex operator algebras

Periodic Solutions of the N-Body Problem Kenneth R. Meyer, 1999-11-17 Lecture Notes in Mathematics This series reports on new developments in mathematical research and teaching quickly informally and at a high level The type of material considered for publication includes 1 Research monographs 2 Lectures on a new field or presentations of a new angle in a classical field 3 Summer schools and intensive courses on topics of current research Texts which are out of print but still in demand may also be considered The timeliness of a manuscript is sometimes more important than its form which might be preliminary or tentative Details of the editorial policy can be found on the inside front cover of a current volume Manuscripts should be submitted in camera ready form according to Springer Verlag s specification technical instructions will be sent on request TEX macros may be found at <http://www.springer.de/math/authors/btex.html> Select the version of TEX you use and then click on Monographs A subject index should be included We recommend contacting the publisher or the series editors at an early stage of your project Addresses are given on the inside back cover

Semiclassical Analysis for Diffusions and Stochastic Processes Vassili N. Kolokoltsov, 2007-12-03 The monograph is devoted mainly to the analytical study of the differential pseudo differential and stochastic evolution equations describing the transition probabilities of various Markov processes These include i diffusions in particular degenerate diffusions ii more general jump diffusions especially stable jump diffusions driven by stable Levy processes iii complex stochastic Schr dinger equations which correspond to models of quantum open systems The main results of the book concern the existence two sided estimates path integral representation and small time and semiclassical asymptotics for the Green functions or fundamental solutions of these equations which represent the transition probability densities of the corresponding random process The boundary value problem for Hamiltonian systems and some spectral asymptotics are also discussed Readers should have an elementary knowledge of probability complex and functional analysis and calculus

Parabolic Problems

Joachim Escher,Patrick Guidotti,Matthias Hieber,Piotr Mucha,Jan W. Prüss,Yoshihiro Shibata,Gieri Simonett,Christoph Walker,Wojciech Zajackowski,2011-07-20 The volume originates from the Conference on Nonlinear Parabolic Problems held in celebration of Herbert Amann's 70th birthday at the Banach Center in Bedlewo Poland It features a collection of peer reviewed research papers by recognized experts highlighting recent advances in fields of Herbert Amann's interest such as nonlinear evolution equations fluid dynamics quasi linear parabolic equations and systems functional analysis and more

Differentiability of Six Operators on Nonsmooth Functions and p -Variation R. M. Dudley,R. Norvaiša,2006-12-08 The book is about differentiability of six operators on functions or pairs of functions composition $f \circ g$ integration of $f \, dg$ multiplication and convolution of two functions both varying and the product integral and inverse operators for one function The operators are differentiable with respect to p variation norms with optimal remainder bounds Thus the functions as arguments of the operators can be nonsmooth possibly discontinuous but four of the six operators turn out to be analytic holomorphic for some p variation norms The reader will need to know basic real analysis including Riemann and Lebesgue integration The book is intended for analysts statisticians and probabilists Analysts and statisticians have each studied the differentiability of some of the operators from different viewpoints and this volume seeks to unify and expand their results

Differential and Difference Equations with Applications Sandra Pinelas,Tomás Caraballo,Peter Kloeden,John R. Graef,2018-05-08 This book gathers papers from the International Conference on Differential Difference Equations and Applications 2017 ICDDEA 2017 held in Lisbon Portugal on June 5-9 2017 The editors have compiled the strongest research presented at the conference providing readers with valuable insights into new trends in the field as well as applications and high level survey results The goal of the ICDDEA was to promote fruitful collaborations between researchers in the fields of differential and difference equations All areas of differential and difference equations are represented with a special emphasis on applications

Sobolev Gradients and Differential Equations John Neuberger,2009-11-10 A Sobolev gradient of a real valued functional on a Hilbert space is a gradient of that functional taken relative to an underlying Sobolev norm This book shows how descent methods using such gradients allow a unified treatment of a wide variety of problems in differential equations For discrete versions of partial differential equations corresponding Sobolev gradients are seen to be vastly more efficient than ordinary gradients In fact descent methods with these gradients generally scale linearly with the number of grid points in sharp contrast with the use of ordinary gradients Aside from the first edition of this work this is the only known account of Sobolev gradients in book form Most of the applications in this book have emerged since the first edition was published some twelve years ago What remains of the first edition has been extensively revised There are a number of plots of results from calculations and a sample MatLab code is included for a simple problem Those working through a fair portion of the material have in the past been able to use the theory on their own applications and also gain an appreciation of the possibility of a rather comprehensive point of view on the subject of partial differential equations

Ten Mathematical Essays on

Approximation in Analysis and Topology Juan Ferrera, J. Lopez-Gomez, F.R. Ruiz del Portal, 2005-04-26 This book collects 10 mathematical essays on approximation in Analysis and Topology by some of the most influent mathematicians of the last third of the 20th Century Besides the papers contain the very ultimate results in each of their respective fields many of them also include a series of historical remarks about the state of mathematics at the time they found their most celebrated results as well as some of their personal circumstances originating them which makes particularly attractive the book for all scientist interested in these fields from beginners to experts These gem pieces of mathematical intra history should delight to many forthcoming generations of mathematicians who will enjoy some of the most fruitful mathematics of the last third of 20th century presented by their own authors This book covers a wide range of new mathematical results Among them the most advanced characterisations of very weak versions of the classical maximum principle the very last results on global bifurcation theory algebraic multiplicities general dependencies of solutions of boundary value problems with respect to variations of the underlying domains the deepest available results in rapid monotone schemes applied to the resolution of non linear boundary value problems the intra history of the the genesis of the first general global continuation results in the context of periodic solutions of nonlinear periodic systems as well as the genesis of the coincidence degree some novel applications of the topological degree for ascertaining the stability of the periodic solutions of some classical families of periodic second order equations the resolution of a number of conjectures related to some very celebrated approximation problems in topology and inverse problems as well as a number of applications to engineering an extremely sharp discussion of the problem of approximating topological spaces by polyhedra using various techniques based on inverse systems as well as homotopy expansions and the Bishop Phelps theorem Key features It contains a number of seminal contributions by some of the most world leading mathematicians of the second half of the 20th Century The papers cover a complete range of topics from the intra history of the involved mathematics to the very last developments in Differential Equations Inverse Problems Analysis Nonlinear Analysis and Topology All contributed papers are self contained works containing rather complete list of references on each of the subjects covered The book contains some of the very last findings concerning the maximum principle the theory of monotone schemes in nonlinear problems the theory of algebraic multiplicities global bifurcation theory dynamics of periodic equations and systems inverse problems and approximation in topology The papers are extremely well written and directed to a wide audience from beginners to experts An excellent occasion to become engaged with some of the most fruitful mathematics developed during the last decades *The Minnesota Notes on Jordan Algebras and Their Applications* Max Koecher, 1999-09-17 This volume contains a re edition of Max Koecher s famous Minnesota Notes The main objects are homogeneous but not necessarily convex cones They are described in terms of Jordan algebras The central point is a correspondence between semisimple real Jordan algebras and so called omega domains This leads to a construction of half spaces which give an essential part of all bounded symmetric domains The theory is presented in a

concise manner with only elementary prerequisites The editors have added notes on each chapter containing an account of the relevant developments of the theory since these notes were first written **Partial Differential Equations J.**

Necas,2018-05-04 As a satellite conference of the 1998 International Mathematical Congress and part of the celebration of the 650th anniversary of Charles University the Partial Differential Equations Theory and Numerical Solution conference was held in Prague in August 1998 With its rich scientific program the conference provided an opportunity for almost 200 participants to gather and discuss emerging directions and recent developments in partial differential equations PDEs This volume comprises the Proceedings of that conference In it leading specialists in partial differential equations calculus of variations and numerical analysis present up to date results applications and advances in numerical methods in their fields Conference organizers chose the contributors to bring together the scientists best able to present a complex view of problems starting from the modeling passing through the mathematical treatment and ending with numerical realization The applications discussed include fluid dynamics semiconductor technology image analysis motion analysis and optimal control The importance and quantity of research carried out around the world in this field makes it imperative for researchers applied mathematicians physicists and engineers to keep up with the latest developments With its panel of international contributors and survey of the recent ramifications of theory applications and numerical methods Partial Differential Equations Theory and Numerical Solution provides a convenient means to that end **Matrix Inequalities** Xingzhi Zhan,2004-10-19 The main purpose of this monograph is to report on recent developments in the field of matrix inequalities with emphasis on useful techniques and ingenious ideas Among other results this book contains the affirmative solutions of eight conjectures Many theorems unify or sharpen previous inequalities The author s aim is to streamline the ideas in the literature The book can be read by research workers graduate students and advanced undergraduates

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