Some Methods in the Mathematical Analysis of Systems and Their Control

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Some Methods In Mathematical Analysis Of Systems And Their Control

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Some Methods in the Mathematical Analysis of Systems and Their Control Jacques-Louis Lions,1981 Frontiers in Mathematical Analysis and Numerical Methods Jacques-Louis Lions,Daqian Li,2004 This volume is a collection of articles in memory of Jacques Louis Lions a leading mathematician and the founder of the Contemporary French Applied Mathematics School The contributions have been written by his friends colleagues and students The book concerns many important results in analysis geometry numerical methods fluid mechanics control theory etc **Biomat 2012 - International Symposium On Mathematical And Computational Biology** Rubem P Mondaini,2013-06-25 This is a book of a series on interdisciplinary topics of the Biological and Mathematical Sciences The chapters correspond to selected papers on special research themes which were presented at BIOMAT 2012 International Symposium on Mathematical and Computational Biology in Tempe Arizona USA November 6 10 This book contains state of the art articles on special research topics on mathematical biology biological physics and mathematical modeling of biosystems comprehensive reviews on interdisciplinary areas written by prominent leaders of scientific research groups The treatment is both pedagogical and advanced in order to motivate research students as well as to fulfill the requirements of professional practitioners

Analysis and Applications H. P. Dikshit,Pawan K. Jain,2003-01-29 Analysis and its applications have been major areas for research in mathematics and allied fields The fast growing power of computation has made a significant and useful impact in these areas This has lead to computational analysis and the emergence of fields like Bezier Bernstein methods for computer aided geometric design constructive approximation and wavelets and even computational harmonic analysis Analysis and Applications consists of research articles including a few survey articles by eminent mathematicians projecting trends in constructive and computational approximation summability theory optimal control and theory and applications of function spaces and wavelets **Sensitivity & Uncertainty Analysis, Volume 1** Dan G. Cacuci,2003-05-28 As computer assisted modeling and analysis of physical processes have continued to grow and diversify sensitivity and uncertainty analyses have become indispensable investigative scientific tools in their own right While most techniques used for these analyses are well documented there has yet to appear a systematic treatment of the method based on adjoint operators which is applicable to a much wider variety of problems than methods traditionally used in control theory This book fills that gap focusing on the mathematical underpinnings of the Adjoint Sensitivity Analysis Procedure ASAP and the use of deterministically obtained sensitivities for subsequent uncertainty analysis **Topology Optimization Theory for Laminar Flow** Yongbo Deng,Yihui Wu,Zhenyu Liu,2017-09-27 This book presents the topology optimization theory for laminar flows with low and moderate Reynolds numbers based on the density method and level set method respectively The density method based theory offers efficient convergence while the level set method based theory can provide anaccurate mathematical expression of the structural boundary Unsteady body force driven and two phase properties are basic

characteristics of the laminar flows The book discusses these properties which are typical of microfluidics and one of the research hotspots in the area of Micro Electro Mechanical Systems MEMS providing an efficient inverse design approach for microfluidic structures To demonstrate the applications of this topology optimization theory in the context of microfluidics it also investigates inverse design for the micromixer microvalve and micropump which are key elements in lab on chip devices

Multiscale Problems in Science and Technology Nenad Antonic,Nenad Antonić,2002-06-26 Proceedings of the Conference on Multiscale Problems in Science and Technology Dubrovnik Croatia 3 9 September 2000 **Handbook of Mathematical Fluid Dynamics** S. Friedlander,D. Serre,2007-05-16 This is the fourth volume in a series of survey articles covering many aspects of mathematical fluid dynamics a vital source of open mathematical problems and exciting physics

Regularization of Ill-Posed Problems by Iteration Methods S.F. Gilyazov,N.L. Gol'dman,2013-04-17 Iteration regularization i e utilization of iteration methods of any form for the stable approximate solution of ill posed problems is one of the most important but still insufficiently developed topics of the new theory of ill posed problems In this monograph a general approach to the justification of iteration regulari zation algorithms is developed which allows us to consider linear and nonlinear methods from unified positions Regularization algorithms are the classical iterative methods steepest descent methods conjugate direction methods gradient projection methods etc complemented by the stopping rule depending on level of errors in input data They are investigated for solving linear and nonlinear operator equations in Hilbert spaces Great attention is given to the choice of iteration index as the regularization parameter and to estimates of errors of approximate solutions Stabilizing properties such as smoothness and shape constraints imposed on the solution are used On the basis of these investigations we propose and establish efficient regularization algorithms for stable numerical solution of a wide class of ill posed problems In particular descriptive regularization algorithms utilizing a priori information about the qualitative behavior of the sought solution and ensuring a substantial saving in computational costs are considered for model and applied problems in nonlinear thermophysics The results of calculations for important applications in various technical fields a continuous casting the treatment of materials and perfection of heat protective systems using laser and composite technologies are given Nonlinear Functional Analysis and Its Applications, Part 2 Felix E. Browder,1986 **Handbook of Differential Equations: Evolutionary Equations** C.M. Dafermos,Eduard Feireisl,2011-09-22 The material collected in this volume reflects the active present of this area of mathematics ranging from the abstract theory of gradient flows to stochastic representations of non linear parabolic PDE s Articles will highlight the present as well as expected future directions of development of the field with particular emphasis on applications The article by Ambrosio and Savar discussesthe most recent development in the theory of gradient flow of probability measures After an introduction reviewing the properties of the Wasserstein space and corresponding subdifferential calculus applications are given to evolutionarypartial differential equations The contribution of Herrero provides a description of some mathematical

approaches developed to account for quantitative as well as qualitative aspects of chemotaxis Particular attention is paid to the limits of cell scapability to measure external cues on the one hand and to provide an overall description of aggregation models for the slim mold Dictyostelium discoideum on the other The chapter written by Masmoudi deals with a rather different topic examples of singular limits in hydrodynamics This is nowadays a well studied issue given the amount of new results based on the development of the existence theory for rather general systems of equations in hydrodynamics The paper by DeLellis addreses the most recent results for the transport equations with regard to possible applications in the theory of hyperbolic systems of conservation laws Emphasis is put on the development of the theory in the case when the governing field is only a BV function The chapter by Rein represents a comprehensive survey of results on the Poisson Vlasov system in astrophysics The question of global stability of steady states is addressed in detail The contribution of Soner is devoted to different representations of non linear parabolic equations in terms of Markov processes After a brief introduction on the linear theory a class ofnon linear equations is investigated with applications to stochastic control and differential games The chapter written by Zuazua presents some of the recent progresses done on the problem of controllabilty of partial differential equations The applications include the linear wave and heat equations parabolic equations with coefficients of low regularity and some fluid structure interaction models Volume 1 focuses on the abstract theory of evolution Volume 2 considers more concrete probelms relating to specific applications Volume 3 reflects the active present of this area of mathematics ranging from the abstract theory of gradient flows to stochastic representations of non linear PDEs **Control of Distributed Parameter Systems 1989** M. Amouroux,A. El Jai,2014-06-28 This volume presents state of the art reports on the theory and current and future applications of control of distributed parameter systems The papers cover the progress not only in traditional methodology and pure research in control theory but also the rapid growth of its importance for different applications This title will be of interest to researchers working in the areas of mathematics automatic control computer science and engineering *Mathematical Essays* Chuan-Chih Hsiung,1983 This is a collection of research papers published in various mathematical journals by friends colleagues and former students of Professor Buchin Su in honor ofhis 80th birthday and 50th year of educational work Professor Su was born in 1902 in Pingyang County Zhejiang Province People s Republic of China He received the degree of Bachelor of Science inmathematics from Tohoku University Sendai Japan in 1927 and the degree ofDoctor of Science from the same university in 1931 After returning to Chinain 1931 he first taught at Zhejiang University in Hangzhou until 1952 when thewhole College of Science of Zhejiang University was merged into Fudan Universityin Shanghai During his 50 years of educational work besides teaching he alsohas taken up various administrative positions serving as Chairman Dean VicePresident and finally the President of Fudan University in 1978 **Optimization Methods in Partial Differential Equations** Steven Cox,Irena Lasiecka,1997 The problems considered range from basic theoretical issues in the calculus of variations such as infinite dimensional Hamilton Jacobi equations saddle point principles

and issues of unique continuation to ones focusing on application and computation where theoretical tools are tuned to more specifically defined problems **Boundary Value Problems with Equivalued Surface and Resistivity Well-Logging** T Li,Songmu Zheng,Yong-Si Tan,Weixi Shen,1998-03-25 This first part of this book deals with the boundary value problem with equivalued surfaces while the second part is concerned with the mathematical model and method including the numerical method of the resistivity well logging for the three lateral well logging **System Modelling and Optimization** M.J.D. Powell,S. Scholtes,2013-03-20 System Modelling and Optimization covers research issues within systems theory optimization modelling and computing It includes contributions to structural mechanics integer programming nonlinear programming interior point methods dynamical systems stability analysis stochastic optimization bilevel optimization and semidefinite programming Several survey papers written by leading experts in their fields complement new developments in theory and applications This book contains most of the invited papers and a few carefully selected submitted papers that were presented at the 19th IFIP TC7 Conference on System Modelling and Optimization which was held in Cambridge England from July 12 to 16 1999 and sponsored by the International Federation for Information Processing IFIP **Homogenization Algebras and Applications** Gabriel Nguetseng,2025-05-26 The book presents a deterministic homogenization theory intended for the mathematical analysis of non stochastic multiscale problems both within and beyond the periodic setting The main tools are the so called homogenization algebras the classical Gelfand representation theory and a class of actions by the multiplicative group of positive real numbers on numerical spaces The basic approach is the Sigma convergence method which generalizes the well known two scale convergence procedure Numerous problems are worked out to illustrate the theory and highlight its broad applicability The book is primarily intended for researchers including PhD students and lecturers interested in periodic as well as non periodic homogenization theory *Emerging Technologies and Techniques in Porous Media* Derek B. Ingham,Adrian Bejan,Eden Mamut,Ian Pop,2012-12-06 Heat and fluid flow in fluid saturated porous media has become increas ingly more attractive to researchers and thus it has become a very pro ductive field for many researchers and practical engineers in very diverse range of fields The great interest in the topic stems from its widespread number of different practical applications in modern industries and in many environmental issues such as nuclear waste management build ing thermal insulators geothermal power plants grain storage etc In building sciences and thermal insulation engineering an appreciable in sulating effect has been derived by placing porous material in the gap between the cavity walls and multishield structures of nuclear reactors between the pressure vessel and the reactor Geophysical applications include modeling of the spread of pollutants e g radioactive mater ial water movements in geothermal reservoirs enhanced recovery of petroleum reservoirs etc These and many other important practical applications have resulted in a rapid expansion of research in the general area of porous media and thus generated a vast amount of both theor etical and experimental research work It has attracted the attention of industrialists engineers and scientists from many varying disciplines such as

applied mathematics chemical civil environmental mechanical and nuclear engineering geothermal physics food science medicine etc This book contains some of the contributions to the NATO Advanced Study Institute on Emerging Technologies and Techniques in Porous Media that was held in Neptun Olimp Constanta Black Sea Romania on 9 20 June 2003

Domain Decomposition Methods in Science and Engineering XX Randolph Bank,Michael Holst,Olof Widlund,Jinchao Xu,2013-07-03 These are the proceedings of the 20th international conference on domain decomposition methods in science and engineering Domain decomposition methods are iterative methods for solving the often very large linearor nonlinear systems of algebraic equations that arise when various problems in continuum mechanics are discretized using finite elements They are designed for massively parallel computers and take the memory hierarchy of such systems in mind This is essential for approaching peak floating point performance There is an increasingly well developed theory whichis having a direct impact on the development and improvements of these algorithms **Optimization and Control for Partial Differential Equations** Roland Herzog,Matthias Heinkenschloss,Dante Kalise,Georg Stadler,Emmanuel Trélat,2022-03-07 This book highlights new developments in the wide and growing field of partial differential equations PDE constrained optimization Optimization problems where the dynamics evolve according to a system of PDEs arise in science engineering and economic applications and they can take the form of inverse problems optimal control problems or optimal design problems This book covers new theoretical computational as well as implementation aspects for PDE constrained optimization problems under uncertainty in shape optimization and in feedback control and it illustrates the new developments on representative problems from a variety of applications

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