

Some Methods in the Mathematical Analysis of Systems and Their Control

Lions, J. L.

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Some Methods In Mathematical Analysis Of Systems And Their Control

Jacques-Louis Lions



Some Methods In Mathematical Analysis Of Systems And Their Control:

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

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 an accurate 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 **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 **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

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 regularization 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

Multiscale Problems in Science and Technology Nenad Antonic, Nenad Antić, 2002-06-26
Proceedings of the Conference on Multiscale Problems in Science and Technology Dubrovnik Croatia 3-9 September 2000

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

Nonlinear Functional Analysis and Its Applications, Part 2 Felix E. Browder, 1986

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Some Methods In Mathematical Analysis Of Systems And Their Control**

In some sort of inundated with displays and the cacophony of quick conversation, the profound power and emotional resonance of verbal artistry often disappear in to obscurity, eclipsed by the continuous onslaught of noise and distractions. However, set within the lyrical pages of **Some Methods In Mathematical Analysis Of Systems And Their Control**, a charming work of literary brilliance that pulses with organic emotions, lies an wonderful trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that enchanting opus manuals viewers on a psychological odyssey, lightly exposing the latent potential and profound influence embedded within the elaborate internet of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect their fascinating publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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