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Finite Difference Methods for Nonlinear Evolution EquationsHypercrimeNonparametric Methods in Change Point ProblemsPartial Differential EquationsAmerican AviationDirichlet Forms and Stochastic ProcessesHomotopy Methods in Topological Fixed and Periodic Points TheoryWireless Computing in MedicineHandbook of Computational StatisticsThe Monthly Army ListComplete Peerage of England, Scotland, Ireland, Great Britain and the United Kingdom, Extant, Extinct, Or DormantThe Collected Mathematical Papers of Arthur CayleyProceedings of the London Mathematical SocietyThe Chemical ReviewGeneral Railway ActsGeorge Broomhall's Corn Trade NewsVerslagen en verhandelingenArchiv Der PharmazieAmerican Aviation DailyThe Messenger of Mathematics Zhi-Zhong Sun Michael McGuire E. Brodsky Wolfgang Arendt Zhiming Ma Jerzy Jezierski Mary Mehrnoosh Eshaghian-Wilner James E. Gentle Great Britain. Army George Edward Cokayne Arthur Cayley London Mathematical Society Great Britain Nationaal Lucht- en Ruimtevaartlaboratorium (Netherlands)

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nonlinear evolution equations are widely used to describe nonlinear phenomena in natural and social sciences however they are usually quite difficult to solve in most instances this book introduces the finite difference methods for solving nonlinear evolution equations the main numerical analysis tool is the energy method this book covers the difference methods for the initial boundary value problems of twelve nonlinear partial differential equations they are fisher equation burgers equation regularized long wave equation korteweg de vries equation camassa holm equation schrödinger equation kuramoto tsuzuki equation zakharov equation ginzburg landau equation cahn hilliard equation epitaxial growth model and phase field crystal model this book is a monograph for the graduate students and science researchers majoring in computational mathematics and applied mathematics it will be also useful to all researchers in related disciplines

hypercrime offers a radical critique of the narrow conceptions of cybercrime offered

by current justice systems and challenges the governing presumptions about the nature of the threat posed by it

the explosive development of information science and technology puts in new problems involving statistical data analysis these problems result from higher re quirements concerning the reliability of statistical decisions the accuracy of math ematical models and the quality of control in complex systems a new aspect of statistical analysis has emerged closely connected with one of the basic questions of cynergetics how to compress large volumes of experimental data in order to extract the most valuable information from data observed de tection of large homogeneous segments of data enables one to identify hidden regularities in an object s behavior to create mathematical models for each seg ment of homogeneity to choose an appropriate control etc statistical methods dealing with the detection of changes in the characteristics of random processes can be of great use in all these problems these methods have accompanied the rapid growth in data beginning from the middle of our century according to a tradition of more than thirty years we call this sphere of statistical analysis the theory of change point detection during the last fifteen years we have witnessed many exciting developments in the theory of change point detection new promising directions of research have emerged and traditional trends have flourished anew despite this most of the results are widely scattered in the literature and few monographs exist a real need has arisen for up to date books which present an account of important current research trends one of which is the theory of non parametric change point detection

this textbook introduces the study of partial differential equations using both analytical and numerical methods by intertwining the two complementary approaches the authors create an ideal foundation for further study motivating examples from the physical sciences engineering and economics complete this integrated approach a showcase of models begins the book demonstrating how pdes arise in practical problems that involve heat vibration fluid flow and financial markets several important characterizing properties are used to classify mathematical similarities then elementary methods are used to solve examples of hyperbolic elliptic and parabolic equations from here an accessible introduction to hilbert spaces and the spectral theorem lay the foundation for advanced methods sobolev spaces are presented first in dimension one before being extended to arbitrary dimension for the study of elliptic equations an extensive chapter on numerical methods focuses on finite difference and finite element methods computer aided calculation with mapletm completes the book throughout three fundamental examples are studied with different tools poisson s equation the heat equation and the wave equation on euclidean domains the black scholes equation from mathematical finance is one of several opportunities for extension partial differential equations offers an innovative introduction for students new to the area analytical and numerical tools combine with modeling to form a versatile toolbox for further study in pure or applied mathematics illuminating illustrations and engaging exercises accompany the text throughout courses in real analysis and linear algebra at the upper undergraduate level are assumed

issues for include annual air transport progress issue

the series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences each volume is associated with a particular

conference symposium or workshop these events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

the notion of a xed point plays a crucial role in numerous branches of mat maticsand its applications informationabout the existence of such pointsis often the crucial argument in solving a problem in particular topological methods of xed point theory have been an increasing focus of interest over the last century these topological methods of xed point theory are divided roughly speaking into two types the rst type includes such as the banach contraction principle where the assumptions on the space can be very mild but a small change of the map can remove the xed point the second type on the other hand such as the brouwer and lefschetz fixed point theorems give the existence of a xed point not only for a given map but also for any its deformations this book is an exposition of a part of the topological xed and periodic point theory of this second type based on the notions of lefschetz and nielsen numbers since both notions are homotopyinvariants the deformationis used as an essential method and the assertions of theorems typically state the existence of xed or periodic points for every map of the whole homotopy class we refer to them as homotopy methods of the topological xed and periodic point theory

provides a comprehensive overview of wireless computing in medicine with technological medical and legal advances this book brings together the latest work of leading scientists in the disciplines of computing medicine and law in the field of wireless health the book is organized into three main sections the first section discusses the use of distributed computing in medicine it concentrates on methods for treating chronic diseases and cognitive disabilities like alzheimer s autism etc it also discusses how to improve portability and accuracy of monitoring instruments and reduce the redundancy of data it emphasizes the privacy and security of using such devices the role of mobile sensing wireless power and markov decision process in distributed computing is also examined the second section covers nanomedicine and discusses how the drug delivery strategies for chronic diseases can be efficiently improved by nanotechnology enabled materials and devices such as mens and nanorobots the authors will also explain how to use dna computation in medicine model brain disorders and detect bio markers using nanotechnology the third section will focus on the legal and privacy issues and how to implement these technologies in a way that is a safe and ethical defines the technologies of distributed wireless health from software that runs cloud computing data centers to the technologies that allow new sensors to work explains the applications of nanotechnologies to prevent diagnose and cure disease includes case studies on how the technologies covered in the book are being implemented in the medical field through both the creation of new medical applications and their integration into current systems discusses pervasive computing s organizational benefits to hospitals and health care organizations and their ethical and legal challenges wireless computing in medicine from nano to cloud with its ethical and legal implications is written as a reference for computer engineers working in wireless computing as well as medical and legal professionals the book will also serve students in the fields of advanced computing nanomedicine health informatics and technology law

the handbook of computational statistics concepts and methods second edition is a revision of the first edition published in 2004 and contains additional comments and updated information on the existing chapters as well as three new chapters

addressing recent work in the field of computational statistics this new edition is divided into 4 parts in the same way as the first edition it begins with how computational statistics became the backbone of modern data science ch 1 an overview of the field of computational statistics how it emerged as a separate discipline and how its own development mirrored that of hardware and software including a discussion of current active research the second part chs 2 15 presents several topics in the supporting field of statistical computing emphasis is placed on the need for fast and accurate numerical algorithms and some of the basic methodologies for transformation database handling high dimensional data and graphics treatment are discussed the third part chs 16 33 focuses on statistical methodology special attention is given to smoothing iterative procedures simulation and visualization of multivariate data lastly a set of selected applications chs 34 38 like bioinformatics medical imaging finance econometrics and network intrusion detection highlight the usefulness of computational statistics in real world applications

papers presented to j e littlewood on his 80th birthday issued as 3d ser v 14 a 1965

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