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Grey Systems

2010-12-15

due to inherent limitations in human sensing organs most data collected for various purposes contain uncertainties even at the rare occasions when accurate data are available the truthful predictions derived on the data tend to create chaotic consequences so to effectively process and make sense out of available data we need methods to deal with uncertainty inherently existing inside the data the intent of this monograph is to explore the fundamental theory methods and techniques of practical application of grey systems theory initiated by professor deng julong in 1982 this volume presents most of the recent advances of the theory accomplished by scholars from around the world from studying this book the reader will not only acquire an overall knowledge of this new theory but also be able to follow the most current research activities all examples presented are based on practical applications of the theory when urgent real life problems had to be addressed last but not the least this book concludes with three appendices the first one compares grey systems theory and interval analysis while revealing the fact that interval analysis is a part of grey mathematics the second appendix presents an array of different approaches of studying uncertainties and the last appendix shows how uncertainties appear using general systems approach

Set Theory with Applications

1985

this book provides a comprehensive introduction to the theory of ordinary differential equations with a focus on mechanics and dynamical systems as important applications of the theory the text is written to be used in the traditional way or in a more applied way the accompanying cd contains maple worksheets for the exercises and special maple code for performing various tasks in addition to its use in a traditional one or two semester graduate course in mathematics the book is organized to be used for interdisciplinary courses in applied mathematics physics and engineering

Differential Equations: Theory and Applications

2013-06-29

this monograph provides the most recent and up to date developments on fractional differential and fractional integro differential equations involving many different potentially useful operators of fractional calculus the subject of fractional calculus and its applications that is calculus of integrals and derivatives of any arbitrary real or complex order has gained considerable popularity and importance during the past three decades or so due mainly to its demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering some of the areas of present day applications of fractional models include fluid flow solute transport or dynamical processes in self similar and porous structures diffusive transport akin to diffusion material viscoelastic theory electromagnetic theory dynamics of earthquakes control theory of dynamical systems optics and signal processing bio sciences economics geology astrophysics probability and statistics chemical physics and so on in the above mentioned areas there are phenomena with strange kinetics which have a microscopic complex behaviour and their macroscopic dynamics can not be characterized by classical derivative models the fractional modelling is an emergent tool which use fractional differential equations including derivatives of fractional order that is we can speak about a derivative of order $1/3$ or square root of 2 and so on some of such fractional models can have solutions which are non differentiable but continuous functions such as weierstrass type functions such kinds of properties are obviously impossible for the ordinary models what are the useful

properties of these fractional operators which help in the modelling of so many anomalous processes from the point of view of the authors and from known experimental results most of the processes associated with complex systems have non local dynamics involving long memory in time and the fractional integral and fractional derivative operators do have some of those characteristics this book is written primarily for the graduate students and researchers in many different disciplines in the mathematical physical engineering and so many others sciences who are interested not only in learning about the various mathematical tools and techniques used in the theory and widespread applications of fractional differential equations but also in further investigations which emerge naturally from or which are motivated substantially by the physical situations modelled mathematically in the book this monograph consists of a total of eight chapters and a very extensive bibliography the main objective of it is to complement the contents of the other books dedicated to the study and the applications of fractional differential equations the aim of the book is to present in a systematic manner results including the existence and uniqueness of solutions for the cauchy type problems involving nonlinear ordinary fractional differential equations explicit solutions of linear differential equations and of the corresponding initial value problems through different methods closed form solutions of ordinary and partial differential equations and a theory of the so called sequential linear fractional differential equations including a generalization of the classical frobenius method and also to include an interesting set of applications of the developed theory key features it is mainly application oriented it contains a complete theory of fractional differential equations it can be used as a postgraduate level textbook in many different disciplines within science and engineering it contains an up to date bibliography it provides problems and directions for further investigations fractional modelling is an emergent tool with demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering it contains many examples and so on

Theory And Applications of Fractional Differential Equations

2006

the nato advanced research institute on search theory and applications was held at the hotel algarve in praia da rocha portugal from march 26 through march 30 1979 and was sponsored by the nato special programme panel on systems science there were forty one participants representing a wide range of backgrounds and interests the purpose of the institute was to bring together people working in search theory and applications with potential users of search techniques to stimulate the increased application of recently developed search technology to civilian problems such as search and rescue mineral exploration surveillance and fishing conversely it was felt that by exposing search analysts to potential applications and new problems they would be stimulated to develop new techniques for these applications and problems the exchange of ideas and problems necessary to accomplish these goals was provided in the meeting workshops there were three workshops search and rescue exploration and surveillance and fishing each consisting of a small group of search analysts and potential users working together to define areas in which search theory and technology can be applied and to outline plans for implementation at the end of the conference each working group submitted a report outlining possible areas of search applications and discussing problems which needed to be solved in order to implement these applications

Search Theory and Applications

1980-12

this is a revised and expanded edition of a successful graduate and reference text the book is designed for a standard graduate course on probability theory including some important applications the new edition offers a detailed treatment of the core area of probability and both structural and limit

results are presented in detail compared to the first edition the material and presentation are better highlighted each chapter is improved and updated

Probability Theory with Applications

2006-03-15

this is a book on linear algebra and matrix theory while it is self contained it will work best for those who have already had some exposure to linear algebra it is also assumed that the reader has had calculus some optional topics require more analysis than this however i think that the subject of linear algebra is likely the most significant topic discussed in undergraduate mathematics courses part of the reason for this is its usefulness in unifying so many different topics linear algebra is essential in analysis applied math and even in theoretical mathematics this is the point of view of this book more than a presentation of linear algebra for its own sake this is why there are numerous applications some fairly unusual

Linear Algebra: Theory and Applications

2012-01-29

research in the statistical analysis of extreme values has flourished over the past decade new probability models inference and data analysis techniques have been introduced and new application areas have been explored statistics of extremes comprehensively covers a wide range of models and application areas including risk and insurance a major area of interest and relevance to extreme value theory case studies are introduced providing a good balance of theory and application of each model discussed incorporating many illustrated examples and plots of data the last part of the book covers some interesting advanced topics including time series regression multivariate and bayesian modelling of extremes the use of which has huge potential

Statistics of Extremes

2004-10-15

the main intended audience for this book is undergraduate students in pure and applied sciences especially those in engineering chapters 2 to 4 cover the probability theory they generally need in their training although the treatment of the subject is surely sufficient for non mathematicians i intentionally avoided getting too much into detail for instance topics such as mixed type random variables and the dirac delta function are only briefly mentioned courses on probability theory are often considered difficult however after having taught this subject for many years i have come to the conclusion that one of the biggest problems that the students face when they try to learn probability theory particularly nowadays is their deficiencies in basic differential and integral calculus integration by parts for example is often already forgotten by the students when they take a course on probability for this reason i have decided to write a chapter reviewing the basic elements of differential calculus even though this chapter might not be covered in class the students can refer to it when needed in this chapter an effort was made to give the readers a good idea of the use in probability theory of the concepts they should already know chapter 2 presents the main results of what is known as elementary probability including bayes rule and elements of combinatorial analysis

all standard exercises and hundreds of application examples from nearly every area of mathematics in the first part of the book the author discusses different inductive techniques including well ordered sets basic mathematical induction strong induction double induction infinite descent downward induction and several variants he then introduces ordinals and cardinals transfinite induction the axiom of choice zorn s lemma empirical induction and fallacies and induction he also explains how to write inductive proofs the next part contains more than 750 exercises that highlight the levels of difficulty of an inductive proof the variety of inductive techniques available and the scope of results provable by mathematical induction each self contained chapter in this section includes the necessary definitions theory and notation and covers a range of theorems and problems from fundamental to very specialized the final part presents either solutions or hints to the exercises slightly longer than what is found in most texts these solutions provide complete details for every step of the problem solving process

The Theory and Applications of Iteration Methods

2022-01-21

this book introduces and exchanges recent innovative topics on the areas of fixed point theory convex and set valued analysis variational inequality and complementarity problem theory non linear ergodic theory difference differential and integral equations control and optimisation theory dynamic system theory inequality theory stochastic analysis and probability theory and their applications

Handbook of Mathematical Induction

2016-11-16

this second edition of adaptive filters theory and applications has been updated throughout to reflect the latest developments in this field notably an increased coverage given to the practical applications of the theory to illustrate the much broader range of adaptive filters applications developed in recent years the book offers an easy to understand approach to the theory and application of adaptive filters by clearly illustrating how the theory explained in the early chapters of the book is modified for the various applications discussed in detail in later chapters this integrated approach makes the book a valuable resource for graduate students and the inclusion of more advanced applications including antenna arrays and wireless communications makes it a suitable technical reference for engineers practitioners and researchers key features offers a thorough treatment of the theory of adaptive signal processing incorporating new material on transform domain frequency domain subband adaptive filters acoustic echo cancellation and active noise control provides an in depth study of applications which now includes extensive coverage of ofdm mimo and smart antennas contains exercises and computer simulation problems at the end of each chapter includes a new companion website hosting matlab simulation programs which complement the theoretical analyses enabling the reader to gain an in depth understanding of the behaviours and properties of the various adaptive algorithms

Inequality Theory and Applications

2011-02-16

this seventh edition of the book offers extensive discussion of information uncertainty and game theory

Adaptive Filters

2013-04-02

this updated text on numerical analysis includes two new chapters covering technological advances as they apply to numerical analysis and places more emphasis on algorithms while encouraging their implementation on the computer

Price Theory and Applications

2005-09-12

presents a series of tutorial and research papers on the applications of flow analysis as well as its methods and underlying theory preface

Theory and Applications of Numerical Analysis

1996

examining recent mathematical developments in the study of fredholm operators spectral theory and block operator matrices with a rigorous treatment of classical riesz theory of polynomially compact operators this volume covers both abstract and applied developments in the study of spectral theory these topics are intimately related to the stability of underlying physical systems and play a crucial role in many branches of mathematics as well as numerous interdisciplinary applications by studying classical riesz theory of polynomially compact operators in order to establish the existence results of the second kind operator equations this volume will assist the reader working to describe the spectrum multiplicities and localization of the eigenvalues of polynomially compact operators

Program Flow Analysis

1981

mixed modeling is one of the most promising and exciting areas of statistical analysis enabling the analysis of nontraditional clustered data that may come in the form of shapes or images this book provides in depth mathematical coverage of mixed models statistical properties and numerical algorithms as well as applications such as the analysis of tumor regrowth shape and image the new edition includes significant updating over 300 exercises stimulating chapter projects and model simulations inclusion of r subroutines and a revised text format the target audience continues to be graduate students and researchers an author maintained web site is available with solutions to exercises and a compendium of relevant data sets

Spectral Theory and Applications of Linear Operators and Block Operator Matrices

2015-07-04

the first edition was released in 1996 and has sold close to 2200 copies provides an up to date comprehensive treatment of mds a statistical technique used to analyze the structure of similarity or dissimilarity data in multidimensional space the authors have added three chapters and exercise sets the text is being moved from sss to sspp the book is suitable for courses in statistics for the social or

managerial sciences as well as for advanced courses on mds all the mathematics required for more advanced topics is developed systematically in the text

Graph Theory with Applications to Engineering and Computer Science

1974

category theory now permeates most of mathematics large parts of theoretical computer science and parts of theoretical physics its unifying power brings together different branches and leads to a better understanding of their roots this book is addressed to students and researchers of these fields and can be used as a text for a first course in category theory it covers the basic tools like universal properties limits adjoint functors and monads these are presented in a concrete way starting from examples and exercises taken from elementary algebra lattice theory and topology then developing the theory together with new exercises and applications a reader should have some elementary knowledge of these three subjects or at least two of them in order to be able to follow the main examples appreciate the unifying power of the categorical approach and discover the subterranean links brought to light and formalised by this perspective applications of category theory form a vast and differentiated domain this book wants to present the basic applications in algebra and topology with a choice of more advanced ones based on the interests of the author references are given for applications in many other fields in this second edition the book has been entirely reviewed adding many applications and exercises all non obvious exercises have now a solution or a reference in the case of an advanced topic solutions are now collected in the last chapter

Mixed Models

2013

this book contains articles on maximal regulatory problems interpolation spaces multiplicative perturbations of generators linear and nonlinear evolution equations integrodifferential equations dual semigroups positive semigroups applications to control theory and boundary value problems

Modern Multidimensional Scaling

2005-08-04

accessible and informative this introduction to game theory explores 2 person zero sum games 2 person non zero sum games n person games and a variety of applications numerous exercises with full solutions includes 30 illustrations 1986 edition

Category Theory and Applications

2021

this book presents a scientific and systematic development of the under lying concepts of microeconomics with due emphasis on analytical and mathematical treatment much needed for an application orientation of mind to help students in understanding and tackling the real world problems the book is organized into nine chapters the first chapter is devoted to price output decisions of a monopoly it provides a comprehensive account of these decisions under all their manifestations in a systematic manner with illustrative sketches and mathematical explanations chapters 2 to 4 devoted

to imperfect markets cover monopolistic competition duopoly and oligopoly under different situations of product pricing and quantity determination the analysis is systematic incorporating illustrative sketches and mathematical explanations chapter 4 presents the sales maximization models of baumol chapter 5 is devoted to factor pricing and chapter 6 to capital and investment decisions the former focuses on pricing of variable and fixed factors of production while the latter on intertemporal analysis and choice under uncertainty chapters 7 to 9 devoted to general equilibrium and market failure analyse topics on general equilibrium and pareto efficiency markets with asymmetric information and externalities and public goods this title includes over 145 neatly drawn figures to clarify the concepts chapter end summaries as key terms and concepts to facilitate quick revision over 410 chapter end short and long answer questions of numerical and analytical nature with hints and answers as appropriate to probe the student s assimilation of the material covered and numerous illustrative examples throughout the text to illustrate the application of concepts

semigroup theory and applications

2020-12-22

written in a clear pedagogic style this book deals with the application of density matrix theory to atomic and molecular physics the aim is to precisely characterize states by a vector and to construct general formulas and proofs of general theorems the basic concepts and quantum mechanical fundamentals reduced density matrices entanglement quantum correlations are discussed in a comprehensive way the discussion leads up to applications like coherence and orientation effects in atoms and molecules decoherence and relaxation processes this third edition has been updated and extended throughout and contains a completely new chapter exploring nonseparability and entanglement in two particle spin 1 2 systems the text discusses recent studies in atomic and molecular reactions a new chapter explores nonseparability and entanglement in two particle spin 1 2 systems

Games, Theory and Applications

2013-12-02

this second edition accounts for many major developments in generalized inverses while maintaining the informal and leisurely style of the 1974 first edition added material includes a chapter on applications new exercises and an appendix on the work of e h moore

Microeconomics: Theory And Applications Part Ii

2009-12

this book is an in depth and modern presentation of important classical results in complex analysis and is suitable for a first course on the topic as taught by the authors at several universities the level of difficulty of the material increases gradually from chapter to chapter and each chapter contains many exercises with solutions and applications of the results with the particular goal of showcasing a variety of solution techniques

Density Matrix Theory and Applications

2012-01-13

uniting dozens of seemingly disparate results from different fields this book combines concepts from

mathematics and computer science to present the first integrated treatment of sequences generated by finite automata the authors apply the theory to the study of automatic sequences and their generalizations such as Sturmian words and k regular sequences and further they provide applications to number theory particularly to formal power series and transcendence in finite characteristic physics computer graphics and music starting from first principles wherever feasible basic results from combinatorics on words numeration systems and models of computation are discussed thus this book is suitable for graduate students or advanced undergraduates as well as for mature researchers wishing to know more about this fascinating subject results are presented from first principles wherever feasible and the book is supplemented by a collection of 460 exercises 85 open problems and over 1600 citations to the literature

Generalized Inverses

2003-06-16

drawing on examples from current economic literature and politics this is the first book on game theory at an introductory but not elementary level the author covers topics of great actual or potential use in economics such as noncooperative games infinitely repeated games finitely repeated games two person cooperative games and cooperative games with and without side payments thoroughly revised the new second edition of this authoritative book includes greatly expanded coverage of equilibrium refinements and the folk theorem for repeated games as well as a new chapter on finite noncooperative games

Complex Analysis

2019-07-08

i smooth analysis a totally new direction in mathematics this revolutionary new study introduces a new class of invariant derivatives of functions and establishes relations with other derivatives such as the Sobolev generalized derivative and the generalized derivative of the distribution theory i smooth analysis is the branch of functional analysis that considers the theory and applications of the invariant derivatives of functions and functionals the important direction of i smooth analysis is the investigation of the relation of invariant derivatives with the Sobolev generalized derivative and the generalized derivative of distribution theory until now i smooth analysis has been developed mainly to apply to the theory of functional differential equations and the goal of this book is to present i smooth analysis as a branch of functional analysis the notion of the invariant derivative i derivative of nonlinear functionals has been introduced in mathematics and this in turn developed the corresponding i smooth calculus of functionals and showed that for linear continuous functionals the invariant derivative coincides with the generalized derivative of the distribution theory this book intends to introduce this theory to the general mathematics engineering and physicist communities i smooth analysis theory and applications introduces a new class of derivatives of functions and functionals a revolutionary new approach establishes a relationship with the generalized Sobolev derivative and the generalized derivative of the distribution theory presents the complete theory of i smooth analysis contains the theory of fde numerical method based on i smooth analysis explores a new direction of i smooth analysis the theory of the invariant derivative of functions is of interest to all mathematicians engineers studying processes with delays and physicists who study hereditary phenomena in nature audience mathematicians applied mathematicians engineers physicists students in mathematics

Automatic Sequences

2003-07-21

a clear exposition of the flourishing field of fixed point theory most of the main results and techniques are developed together with applications in analysis researchers and graduate students in applicable analysis will find this to be a useful survey of the fundamental principles of the subject

Game Theory with Applications to Economics

1990

one of the major contemporary challenges in both physical and social sciences is modeling analyzing and understanding the self organization evolution behavior and eventual decay of complex dynamical systems ranging from cell assemblies to the human brain to animal societies the multi faceted problems in this domain require a wide range of methods from various scientific disciplines there is no question that the inclusion of time delays in complex system models considerably enriches the challenges presented by the problems although this inclusion often becomes inevitable as real world applications demand more and more realistic models the role of time delays in the context of complex systems so far has not attracted the interest it deserves the present volume is an attempt toward filling this gap there exist various useful tools for the study of complex time delay systems at the forefront is the mathematical theory of delay equations a relatively mature field in many aspects which provides some powerful techniques for analytical inquiries along with some other tools from statistical physics graph theory computer science dynamical systems theory probability theory simulation and optimization software and so on nevertheless the use of these methods requires a certain synergy to address complex systems problems especially in the presence of time delays

i-Smooth Analysis

2015-06-02

this book collects papers from the 8th conference on non integer order calculus and its applications that have been held on september 20 21 2016 in zakopane poland the preceding two conferences were held in szczecin poland in 2015 and in opole poland in 2014 this conference provides a platform for academic exchange on the theory and application of fractional calculus between domestic and international universities research institutes corporate experts and scholars the proceedings of the 8th conference on non integer order calculus and its applications 2016 brings together rigorously reviewed contributions from leading international experts the included papers cover novel various important aspects of mathematical foundations of fractional calculus modeling and control of fractional systems as well as controllability detectability observability and stability problems for this systems

Fixed Point Theory and Applications

2001

this volume is based on lectures delivered at the 2019 ams short course sum of squares theory and applications held january 14 15 2019 in baltimore maryland this book provides a concise state of the art overview of the theory and applications of polynomials that are sums of squares this is an exciting and timely topic with rich connections to many areas of mathematics including polynomial and semidefinite optimization real and convex algebraic geometry and theoretical computer science the

six chapters introduce and survey recent developments in this area specific topics include the algebraic and geometric aspects of sums of squares and spectrahedra lifted representations of convex sets and the algorithmic and computational implications of viewing sums of squares as a meta algorithm the book also showcases practical applications of the techniques across a variety of areas including control theory statistics finance and machine learning

Complex Time-Delay Systems

2010-03-10

the workshop for women in graph theory and applications was held at the institute for mathematics and its applications university of minnesota minneapolis on august 19 23 2019 during this five day workshop 42 participants performed collaborative research in six teams each focused on open problems in different areas of graph theory and its applications the research work of each team was led by two experts in the corresponding area who prior to the workshop carefully selected relevant and meaningful open problems that would yield high quality research and results of strong impact as a result all six teams have made significant contributions to several open problems in their respective areas the workshop led to the creation of the women in graph theory and applications research collaboration network which provided the framework to continue collaborating and to produce this volume this book contains six chapters each of them on one of the different areas of research at the workshop for women in graph theory and applications and written by participants of each team

Theory and Applications of Non-integer Order Systems

2018-04-22

Sum of Squares: Theory and Applications

2022-09-08

Research Trends in Graph Theory and Applications

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