

Mathematical Modeling with Multidisciplinary Applications

Edited by Xin-She Yang

Mathematical Modeling With Multidisciplinary Applications

Douglas R. Shier, K.T. Wallenius



Mathematical Modeling With Multidisciplinary Applications:

Mathematical Modeling with Multidisciplinary Applications Xin-She Yang, 2013-04-01 Features mathematical modeling techniques and real world processes with applications in diverse fields Mathematical Modeling with Multidisciplinary Applications details the interdisciplinary nature of mathematical modeling and numerical algorithms The book combines a variety of applications from diverse fields to illustrate how the methods can be used to model physical processes design new products find solutions to challenging problems and increase competitiveness in international markets Written by leading scholars and international experts in the field the book presents new and emerging topics in areas including finance and economics theoretical and applied mathematics engineering and machine learning physics chemistry ecology and social science In addition the book thoroughly summarizes widely used mathematical and numerical methods in mathematical modeling and features Diverse topics such as partial differential equations PDEs fractional calculus inverse problems by ordinary differential equations ODEs semigroups decision theory risk analysis Bayesian estimation nonlinear PDEs in financial engineering perturbation analysis and dynamic system modeling Case studies and real world applications that are widely used for current mathematical modeling courses such as the green house effect and Stokes flow estimation Comprehensive coverage of a wide range of contemporary topics such as game theory statistical models and analytical solutions to numerical methods Examples exercises with select solutions and detailed references to the latest literature to solidify comprehensive learning New techniques and applications with balanced coverage of PDEs discrete models statistics fractional calculus and more Mathematical Modeling with Multidisciplinary Applications is an excellent book for courses on mathematical modeling and applied mathematics at the upper undergraduate and graduate levels The book also serves as a valuable reference for research scientists mathematicians and engineers who would like to develop further insights into essential mathematical tools

Mathematical Modeling and Computational Intelligence in Engineering Applications Antônio José da Silva Neto, Orestes Llanes Santiago, Geraldo Nunes Silva, 2016-08-12 This book brings together a rich selection of studies in mathematical modeling and computational intelligence with application in several fields of engineering like automation biomedical chemical civil electrical electronic geophysical and mechanical engineering on a multidisciplinary approach Authors from five countries and 16 different research centers contribute with their expertise in both the fundamentals and real problems applications based upon their strong background on modeling and computational intelligence The reader will find a wide variety of applications mathematical and computational tools and original results all presented with rigorous mathematical procedures This work is intended for use in graduate courses of engineering applied mathematics and applied computation where tools as mathematical and computational modeling numerical methods and computational intelligence are applied to the solution of real problems

Mathematical and Computational Modeling Roderick Melnik, 2015-04-30 Mathematical and Computational Modeling Illustrates the application of mathematical and

computational modeling in a variety of disciplines With an emphasis on the interdisciplinary nature of mathematical and computational modeling Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts features chapters written by well known international experts in these fields and presents readers with a host of state of the art achievements in the development of mathematical modeling and computational experiment methodology The book is a valuable guide to the methods ideas and tools of applied and computational mathematics as they apply to other disciplines such as the natural and social sciences engineering and technology The book also features Rigorous mathematical procedures and applications as the driving force behind mathematical innovation and discovery Numerous examples from a wide range of disciplines to emphasize the multidisciplinary application and universality of applied mathematics and mathematical modeling Original results on both fundamental theoretical and applied developments in diverse areas of human knowledge Discussions that promote interdisciplinary interactions between mathematicians scientists and engineers Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts is an ideal resource for professionals in various areas of mathematical and statistical sciences modeling and simulation physics computer science engineering biology and chemistry and industrial and computational engineering The book also serves as an excellent textbook for graduate courses in mathematical modeling applied mathematics numerical methods operations research and optimization *Multidisciplinary Mathematical Modelling* Francesc Font,Tim G.

Myers,2021-04-13 This book presents a selection of the talks resulting from research carried out by different groups at the Centre de Recerca Matemàtica and presented at the International Congress on Industrial and Applied Mathematics held in Valencia in 2019 The various chapters describe a wide variety of topics cancer modelling carbon capture by adsorption nanoscale diffusion and complex systems to predict earthquakes These mathematical studies were specifically aided via collaborations with biomedical engineers physicists and chemists The book is addressed to researchers in all of these areas as well as in general mathematical modelling Proceedings Of The 14th International Congress On Mathematical

Education (In 2 Volumes) Jianpan Wang,2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent

developments new perspectives and emergent issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education Applied Mathematical Modeling Douglas R. Shier, K.T. Wallenius, 1999-11-11 The practice of modeling is best learned by those armed with fundamental methodologies and exposed to a wide variety of modeling experience Ideally this experience could be obtained by working on actual modeling problems But time constraints often make this difficult Applied Mathematical Modeling provides a collection of models illustrating the power and richness of the mathematical sciences in supplying insight into the operation of important real world systems It fills a gap within modeling texts focusing on applications across a broad range of disciplines The first part of the book discusses the general components of the modeling process and highlights the potential of modeling in practice These chapters discuss the general components of the modeling process and the evolutionary nature of successful model building The second part provides a rich compendium of case studies each one complete with examples exercises and projects In keeping with the multidimensional nature of the models presented the chapters in the second part are listed in alphabetical order by the contributor's last name Unlike most mathematical books in which you must master the concepts of early chapters to prepare for subsequent material you may start with any chapter Begin with cryptology if that catches your fancy or go directly to bursty traffic if that is your cup of tea Applied Mathematical Modeling serves as a handbook of in depth case studies that span the mathematical sciences building upon a modest mathematical background Readers in other applied disciplines will benefit from seeing how selected mathematical modeling philosophies and techniques can be brought to bear on problems in their disciplines The models address actual situations studied in chemistry physics demography economics civil engineering environmental engineering industrial engineering telecommunications and other areas

Mathematical Sciences with Multidisciplinary Applications Bourama Toni, 2016-08-19 This book is the fourth in a multidisciplinary series which brings together leading researchers in the STEAM H disciplines Science Technology Engineering Agriculture Mathematics and Health to present their perspective on advances in their own specific fields and to generate a genuinely interdisciplinary collaboration that transcends parochial subject matter boundaries All contributions are carefully edited peer reviewed reasonably self contained and pedagogically crafted for a multidisciplinary readership Contributions are drawn from a variety of fields including mathematics statistics game theory and behavioral sciences biomathematics and physical chemistry computer science and human centered computing This volume is dedicated to Professor Christiane Rousseau whose work inspires the STEAM H series in recognition of her passion for the mathematical sciences and her on going initiative the Mathematics of Planet Earth paradigm of interdisciplinarity The volume's primary goal is to enhance interdisciplinary understanding between these areas of research by showing how new advances in a

particular field can be relevant to open problems in another and how many disciplines contribute to a better understanding of relevant issues at the interface of mathematics and the sciences The main emphasis is on important methods research directions and applications of analysis within and beyond each field As such the volume aims to foster student interest and participation in the STEAM H domain as well as promote interdisciplinary research collaborations The volume is valuable as a reference of choice and a source of inspiration for a broad spectrum of scientists mathematicians research students and postdoctoral fellows

The Proceedings of the 12th International Congress on Mathematical Education Sung Je Cho, 2015-02-10 This book comprises the Proceedings of the 12th International Congress on Mathematical Education ICME 12 which was held at COEX in Seoul Korea from July 8th to 15th 2012 ICME 12 brought together 3500 experts from 92 countries working to understand all of the intellectual and attitudinal challenges in the subject of mathematics education as a multidisciplinary research and practice This work aims to serve as a platform for deeper more sensitive and more collaborative involvement of all major contributors towards educational improvement and in research on the nature of teaching and learning in mathematics education It introduces the major activities of ICME 12 which have successfully contributed to the sustainable development of mathematics education across the world The program provides food for thought and inspiration for practice for everyone with an interest in mathematics education and makes an essential reference for teacher educators curriculum developers and researchers in mathematics education The work includes the texts of the four plenary lectures and three plenary panels and reports of three survey groups five National presentations the abstracts of fifty one Regular lectures reports of thirty seven Topic Study Groups and seventeen Discussion Groups

Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy Manoj Sahni, José M. Merigó, Brajesh Kumar Jha, Rajkumar Verma, 2021-02-28 This book presents new knowledge and recent developments in all aspects of computational techniques mathematical modeling energy systems applications of fuzzy sets and intelligent computing The book is a collection of best selected research papers presented at the International Conference on Mathematical Modeling Computational Intelligence Techniques and Renewable Energy organized by the Department of Mathematics Pandit Deendayal Petroleum University in association with Forum for Interdisciplinary Mathematics Institution of Engineers IEI Gujarat and Computer Society of India CSI Ahmedabad The book provides innovative works of researchers academicians and students in the area of interdisciplinary mathematics statistics computational intelligence and renewable energy

Emerging Methods and Multidisciplinary Applications in Geospatial Research Albert, Donald P., Dobbs, G. Rebecca, 2012-08-31 We need to understand how to utilize Geospatial Research in order to help us solve problems in environmental life science and defense industries as well as intelligence natural resources medical and public safety industries Emerging Methods and Multidisciplinary Applications in Geospatial Research exemplifies the usage of geographic information science and technology GIS T to explore and resolve geographical issues from various application domains within

the social and or physical sciences It specializes in studies from applied geography that interfaces with geographic information science and technology This publication is designed to provide planners and policy analysts practitioners academicians and others using GIS T useful studies that might support decision making activities **The Best Writing on Mathematics 2018** Mircea Pitici,2018-12-04 The year s finest mathematical writing from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2018 makes available to a wide audience many pieces not easily found anywhere else and you don t need to be a mathematician to enjoy them These essays delve into the history philosophy teaching and everyday aspects of math offering surprising insights into its nature meaning and practice and taking readers behind the scenes of today s hottest mathematical debates James Grime shows how to build subtly mischievous dice for playing slightly unfair games and Michael Barany traces how our appreciation of the societal importance of mathematics has developed since World War II In other essays Francis Su extolls the inherent values of learning doing and sharing mathematics and Margaret Wertheim takes us on a mathematical exploration of the mind and the world with glimpses at science philosophy music art and even crocheting And there s much much more In addition to presenting the year s most memorable math writing this must have anthology includes an introduction by the editor and a bibliography of other notable pieces on mathematics This is a must read for anyone interested in where math has taken us and where it is headed Engineering Simulation and its Applications Xin-She Yang,2024-02-01 Engineering Simulation and its Applications Algorithms and Numerical Methods covers the essential quantitative methods needed for engineering simulations introducing optimization techniques that can be used in the design of systems to minimize cost and maximize efficiency This book serves as a reference and textbook for courses such as engineering simulation design optimization mathematical modeling numerical methods data analysis and engineering management Diverse coverage of the various subject areas within the field puts the essential topics into a single book for easy access for graduates and senior undergraduates It also serves as a reference book for lecturers and industrial practitioners Introduces all essential algorithms and numerical methods Balances theory and numerical techniques Provides numerous worked examples

Recent Developments In Structural Health Monitoring And Assessment - Opportunities And Challenges: Bridges, Buildings And Other Infrastructures Achintya Haldar,Abdullah Abdulamir Abdullah Al-hussein,2022-01-19 This is a follow up to Health Assessment of Engineered Structures It incorporates the most recent developments in health assessment and monitoring of infrastructures covering several advanced conceptual frameworks different types of sensors and application potentials Opportunities and challenges in theoretical numerical and experimental investigations generally overlooked in the profession are discussed Also included are various types of Bayesian filtering concepts improving the commonly used techniques Showcasing a multi faceted technology based development in health assessment of infrastructures several new

approaches for health assessment are presented to assess the health of masonry structures riveted steel railway bridges and more such as the use of **Unmanned Aerial Vehicles and Multidisciplinary Applications Using AI Techniques**

Thusnavis, Bella Mary I., Sagayam, K. Martin, Elngar, Ahmed A., 2022-05-27 Unmanned aerial vehicles UAVs and artificial intelligence AI are gaining the attention of academic and industrial researchers due to the freedoms that UAVs afford when operating and monitoring activities remotely Applying machine learning and deep learning techniques can result in fast and reliable outputs and have helped in real time monitoring data collection and processing and prediction UAVs utilizing these techniques can become instrumental tools for computer wireless networks smart cities military applications agricultural sectors and mining Unmanned Aerial Vehicles and Multidisciplinary Applications Using AI Techniques is an essential reference source that covers pattern recognition machine and deep learning based methods and other AI techniques and the impact they have when applied to different real time applications of UAVs It synthesizes the scope and importance of machine learning and deep learning models in enhancing UAV capabilities solutions to problems and numerous application areas Covering topics such as vehicular surveillance systems yield prediction and human activity recognition this premier reference source is a comprehensive resource for computer scientists AI engineers data scientists agriculturalists government officials military leaders business managers and leaders students and faculty of higher education academic libraries academicians and researchers in computer science computer vision pattern recognition imaging and engineering

Modeling of Mass Transport Processes in Biological Media Sid M. Becker, Andrey V. Kuznetsov, Filippo de Monte, Giuseppe Pontrelli, Dan Zhao, 2022-08-24 Modeling of Mass Transport Processes in Biological Media focuses on applications of mass transfer relevant to biomedical processes and technology fields that require quantitative mechanistic descriptions of the delivery of molecules and drugs This book features recent advances and developments in biomedical therapies with a focus on the associated theoretical and mathematical techniques necessary to predict mass transfer in biological systems The book is authored by over 50 established researchers who are internationally recognized as leaders in their fields Each chapter contains a comprehensive introductory section for those new to the field followed by recent modeling developments motivated by empirical experimental observation Offering a unique opportunity for the reader to access recent developments from technical theoretical and engineering perspectives this book is ideal for graduate and postdoctoral researchers in academia as well as experienced researchers in biomedical industries Offers updated information related to advanced techniques and fundamental knowledge particularly advances in computer based diagnostics and treatment and numerical simulations Provides a bridge between well established theories and the latest developments in the field Coverage includes dialysis inert solute transport insulin electrokinetic transport cellular molecular uptake transdermal drug delivery and respiratory therapies **Optimum Design of Steel Structures** József Farkas, Károly Jármai, 2013-03-29

This book helps designers and manufacturers to select and develop the most suitable and competitive steel structures which

are safe fit for production and economic An optimum design system is used to find the best characteristics of structural models which guarantee the fulfilment of design and fabrication requirements and minimize the cost function Realistic numerical models are used as main components of industrial steel structures Chapter 1 contains some experiences with the optimum design of steel structures Chapter 2 treats some newer mathematical optimization methods Chapter 3 gives formulae for fabrication times and costs Chapters 4 deals with beams and columns Summarizes the Eurocode rules for design Chapter 5 deals with the design of tubular trusses Chapter 6 gives the design of frame structures and fire resistant design rules for a frame In Chapters 7 some minimum cost design problems of stiffened and cellular plates and shells are worked out for cases of different stiffenings and loads Chapter 8 gives a cost comparison of cylindrical and conical shells The book contains a large collection of literatures and a subject list and a name index

Topics in Identification, Limited Dependent Variables, Partial Observability, Experimentation, and Flexible Modeling Ivan Jeliazkov, Justin Tobias, 2019-10-18 Volume 40B of *Advances in Econometrics* examines innovations in stochastic frontier analysis nonparametric and semiparametric modeling and estimation A B experiments big data analysis and quantile regression

Logic for Programming, Artificial Intelligence, and Reasoning Ken McMillan, Aart Middeldorp, Andrei Voronkov, 2013-12-05 This book constitutes the proceedings of the 19th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 19 held in December 2013 in Stellenbosch South Africa The 44 regular papers and 8 tool descriptions and experimental papers included in this volume were carefully reviewed and selected from 152 submissions The series of International Conferences on Logic for Programming Artificial Intelligence and Reasoning LPAR is a forum where year after year some of the most renowned researchers in the areas of logic automated reasoning computational logic programming languages and their applications come to present cutting edge results to discuss advances in these fields and to exchange ideas in a scientifically emerging part of the world

Intelligent Computer Mathematics Manfred Kerber, Jacques Carette, Cezary Kaliszyk, Florian Rabe, Volker Sorge, 2015-06-22 This book constitutes the refereed proceedings of the International Conference on Intelligent Computer Mathematics CICM 2015 held in Washington DC USA in July 2015 The 16 full papers and 9 short papers presented together with two invited talks plus one abstract were carefully reviewed and selected from a total of 43 submissions The papers are organized in topical sections following the tracks of the conference Invited Talks Calculamus Digital Mathematics Libraries Mathematical Knowledge Management Projects and Surveys Systems and Data

Data Analysis and Rationality in a Complex World Theodore Chadjipadelis, Berthold Lausen, Angelos Markos, Tae Rim Lee, Angela Montanari, Rebecca Nugent, 2021-02-15 This volume presents the latest advances in statistics and data science including theoretical methodological and computational developments and practical applications related to classification and clustering data gathering exploratory and multivariate data analysis statistical modeling and knowledge discovery and seeking It includes contributions on analyzing and interpreting large complex and aggregated datasets and highlights

numerous applications in economics finance computer science political science and education It gathers a selection of peer reviewed contributions presented at the 16th Conference of the International Federation of Classification Societies IFCS 2019 which was organized by the Greek Society of Data Analysis and held in Thessaloniki Greece on August 26 29 2019

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