Mathematical Tools

Mathematics Tools And Models

Valeri I. Agoshko,Jean-Pierre Puel

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Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part B ,2016-10-16 Mathematic Modelling Improving the Implementation Monitoring and Evaluation of Interventions Part B the latest volume in the Advances in Parasitology series contains comprehensive and up to date reviews in the field of mathematic modeling and its implementation within parasitology The series includes medical studies of parasites of major influence such as Plasmodium falciparum and trypanosomes along with reviews of more traditional areas such as zoology taxonomy and life history all of which shape current thinking and applications Informs and updates on all the latest developments in mathematic modeling Contains contributions from leading authorities and industry experts Latest installment in the Advances in Parasitology series The Mathematics of Financial Models Kannoo Ravindran,2014-09-02 Learn how quantitative models can help fight client problems head on Before financial problems can be solved they need to be fully understood Since in depth quantitative modeling techniques are a powerful tool to understanding the drivers associated with financial problems one would need a solid grasp of these techniques before being able to unlock their full potential of the methods used In The Mathematics of Financial Models the author presents real world solutions to the everyday problems facing financial professionals With interactive tools such as spreadsheets for valuation pricing and modeling this resource combines highly mathematical quantitative analysis with useful practical methodologies to create an essential guide for investment and risk management professionals facing modeling issues in insurance derivatives valuation and pension benefits among others In addition to this this resource also provides the relevant tools like matrices calculus statistics and numerical analysis that are used to build the quantitative methods used Financial analysts investment professionals risk management professionals and graduate students will find applicable information throughout the book and gain from the self study exercises and the refresher course on key mathematical topics Equipped with tips and information The Mathematics of Financial Models Provides practical methodologies based on mathematical quantitative analysis to help analysts investment and risk management professionals better navigate client issues Contains interactive tools that demonstrate the power of analysis and modeling Helps financial professionals become more familiar with the challenges across a range of industries Includes a mathematics refresher course and plenty of exercises to get readers up to speed The Mathematics of Financial Models is an in depth guide that helps readers break through common client financial problems and emerge with clearer strategies for solving issues in the future *Models and Metaphors as Research Tools in Science* Pawel Zeidler,2013 The analysis of actual practice of scientific research within contemporary methodology and philosophy of science demonstrates the central role played by models and metaphors This book puts forward an analysis of the basic reasons for this breakthrough and points to the major consequences that resulted from it both for scientific practice and for the methodological and philosophical reflection on these practices Series Development in Humanities Vol 10

MATHEMATICAL MODELS – Volume I Jerzy A. Filar,Jacek B Krawczyk,2009-09-19 Mathematical Models is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mathematical Models discusses matters of great relevance to our world such as Basic Principles of Mathematical Modeling Mathematical Models in Water Sciences Mathematical Models in Energy Sciences Mathematical Models of Climate and Global Change Infiltration and Ponding Mathematical Models of Biology Mathematical Models in Medicine and Public Health Mathematical Models of Society and Development These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs **Mathematical Models in Biology** Elizabeth Spencer Allman,John A. Rhodes,2004 This introductory textbook on mathematical biology focuses on discrete models across a variety of biological subdisciplines Biological topics treated include linear and non linear models of populations Markov models of molecular evolution phylogenetic tree construction genetics and infectious disease models The coverage of models of molecular evolution and phylogenetic tree construction from DNA sequence data is unique among books at this level Computer investigations with MATLAB are incorporated throughout in both exercises and more extensive projects to give readers hands on experience with the mathematical models developed MATLAB programs accompany the text Mathematical tools such as matrix algebra eigenvector analysis and basic probability are motivated by biological models and given self contained developments so that mathematical prerequisites are minimal Mathematical Models of Fluid Dynamics Rainer Ansorge,Thomas Sonar,2009-07-10 Without sacrificing scientific strictness this introduction to the field guides readers through mathematical modeling the theoretical treatment of the underlying physical laws and the construction and effective use of numerical procedures to describe the behavior of the dynamics of physical flow The book is carefully divided into three main parts The design of mathematical models of physical fluid flow A theoretical treatment of the equations representing the model as Navier Stokes Euler and boundary layer equations models of turbulence in order to gain qualitative as well as quantitative insights into the processes of flow events The construction and effective use of numerical procedures in order to find quantitative descriptions of concrete physical or technical fluid flow situations Both students and experts wanting to control or predict the behavior of fluid flows by theoretical and computational fluid dynamics will benefit from this combination of all relevant aspects in one handy volume **Technological Concepts and Mathematical Models in the Evolution of Modern Engineering Systems** Mario Lucertini,Ana Millàn Gasca,Fernando Nicolò,2012-12-06 M LUCERTINI A MILLAN GASCA AND F NICOLO 1 Technology as Knowledge The Case of Modern Engineering Systems In recent years scholars coming from the fields of history and philosophy of sci ence and technology have devoted much attention to the problem of technology as knowledge and to the emergence of an autonomous engineering science in the Industrial Agel This interest echoes a growing awareness among engineers of the independence of

their conceptual approach with respect to other forms of knowl edge linked to the consolidation of autonomous academic engineering research in th the 20 century A careful examination of the nature of technological knowledge appears particularly valuable in view of the pervasive presence of technology in contemporary life and culture not only as a result of its impressive achievements but through the less obvious influence of its concepts and viewpoints as well The activity of engineers and technicians has been traditionally based on the practical ability to cope with specific situations and to attain the corresponding specific goal by means of the design and realization of an artifact or structure on the basis of past experience handed down by tradition and applied by means of trial and error and rule of thumb procedures But the existence of a theoreti cal background and of principles underpinning this activity can be traced back to classical antiquity

MATHEMATICAL MODELS OF LIFE SUPPORT SYSTEMS - Volume I Valeri I. Agoshko,Jean-Pierre Puel,2009-10-10 Mathematical Models of Life Support Systems is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias The Theme is organized into several topics which represent the main scientific areas of the theme The first topic Introduction to Mathematical Modeling discusses the foundations of mathematical modeling and computational experiments which are formed to support new methodologies of scientific research The succeeding topics are Mathematical Models in Water Sciences Climate Environmental Pollution and Degradation Energy Sciences Food and Agricultural Sciences Population Immunology Medical Sciences and Control of Catastrophic Processes These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs   *Mathematical Models of Fluiddynamics* Rainer Ansorge,2006-03-06 This introduction to the field contains a careful selection of topics and examples without sacrificing scientific strictness The author guides readers through mathematical modelling the theoretical treatment of the underlying physical laws and the construction and effective use of numerical procedures to describe the behaviour of the dynamics of physical flow Both students and experts intending to control or predict the behavior of fluid flows by theoretical and computational fluid dynamics will benefit from the combination of all relevant aspects in one handy volume The book consists of three main parts The design of mathematical models of physical fluid flow A theoretical treatment of the equations representing the model as Navier Stokes Euler and boundary layer equations models of turbulence in order to gain qualitative as well as quantitative insights into the processes of flow events The construction and effective use of numerical procedures in order to find quantitative descriptions of concrete physical or technical fluid flow situations This is the first text of its kind to merge all these subjects so thoroughly   **Functions, Data, and Models** Sheldon P. Gordon,Florence S. Gordon,2025-02-24 This is a college algebra level textbook written to provide the kind of mathematical knowledge and experiences that students will need for courses in other fields such as biology chemistry business finance economics and other areas that are heavily dependent

on data either from laboratory experiments or from other studies The focus is on the fundamental mathematical concepts and the realistic problem solving via mathematical modeling rather than the development of algebraic skills that might be needed in calculus Functions Data and Models presents college algebra in a way that differs from almost all college algebra books available today Rather than going over material covered in high school courses the Gordons teach something new Students are given an introduction to data analysis and mathematical modeling presented at a level that students with limited algebraic skills can understand The book contains a rich set of exercises many of which use real data Also included are thought experiments or what if questions that are meant to stretch the student s mathematical thinking **Mathematical Models in Electrical Circuits: Theory and Applications** C. A. Marinov,Pekka Neittaanmäki,1991-09-30 One service mathematics has rendered the Et moi si favait su comment en revenir je n y seTais point alle human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded n sense The series is divergent therefore we may be Eric T Bell able to do something with it O Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One scrvice logic has rendered com puter science One service category theory has rendcred mathematics All arguably true And all statements obtainable this way form part of the raison d etre of this scries **Mathematical Models in Economics - Volume II** Wei-Bin Zhang,2010-06-10 Mathematical Models in Economics is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias This theme is organized into several different topics and introduces the applications of mathematics to economics Mathematical economics has experienced rapid growth generating many new academic fields associated with the development of mathematical theory and computer Mathematics is the backbone of modern economics It plays a basic role in creating ideas constructing new theories and empirically testing ideas and theories Mathematics is now an integral part of economics The main advances in modern economics are characterized by applying mathematics to various economic problems Many of today s profound insights into economic problems could hardly be obtained without the help of mathematics The concepts of equilibrium versus non equilibrium stability versus instability and steady states versus chaos in the contemporary literature are difficult to explain without mathematics The theme discusses on modern versions of some classical economic theories taking account of balancing between significance of economic issues and mathematical techniques These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs *Mathematical Methods and Models in Biomedicine* Urszula Ledzewicz,Heinz Schättler,Avner Friedman,Eugene Kashdan,2012-10-21 Mathematical biomedicine is a

rapidly developing interdisciplinary field of research that connects the natural and exact sciences in an attempt to respond to the modeling and simulation challenges raised by biology and medicine There exist a large number of mathematical methods and procedures that can be brought in to meet these challenges and this book presents a palette of such tools ranging from discrete cellular automata to cell population based models described by ordinary differential equations to nonlinear partial differential equations representing complex time and space dependent continuous processes Both stochastic and deterministic methods are employed to analyze biological phenomena in various temporal and spatial settings This book illustrates the breadth and depth of research opportunities that exist in the general field of mathematical biomedicine by highlighting some of the fascinating interactions that continue to develop between the mathematical and biomedical sciences It consists of five parts that can be read independently but are arranged to give the reader a broader picture of specific research topics and the mathematical tools that are being applied in its modeling and analysis The main areas covered include immune system modeling blood vessel dynamics cancer modeling and treatment and epidemiology The chapters address topics that are at the forefront of current biomedical research such as cancer stem cells immunodominance and viral epitopes aggressive forms of brain cancer or gene therapy The presentations highlight how mathematical modeling can enhance biomedical understanding and will be of interest to both the mathematical and the biomedical communities including researchers already working in the field as well as those who might consider entering it Much of the material is presented in a way that gives graduate students and young researchers a starting point for their own work   Mathematical Methods and Models for Economists Angel de la Fuente,Ángel de la Fuente,2000-01-28 A textbook for a first year PhD course in mathematics for economists and a reference for graduate students in economics   *Mathematical Analysis of Groundwater Flow Models* Abdon Atangana,2022-03-22 This book provides comprehensive analysis of a number of groundwater issues ranging from flow to pollution problems Several scenarios are considered throughout including flow in leaky unconfined and confined geological formations crossover flow behavior from confined to confined to semi confined to unconfined and groundwater pollution in dual media Several mathematical concepts are employed to include into the mathematical models complexities of the geological formation including classical differential operators fractional derivatives and integral operators fractal mapping randomness piecewise differential and integral operators It suggests several new and modified models to better predict anomalous behaviours of the flow and movement of pollution within complex geological formations Numerous mathematical techniques are employed to ensure that all suggested models are well suited and different techniques including analytical methods and numerical methods are used to derive exact and numerical solutions of different groundwater models Features Includes modified numerical and analytical methods for solving new and modified models for groundwater flow and transport Presents new flow and transform models for groundwater transport in complex geological formations Examines fractal and crossover behaviors and their mathematical formulations Mathematical Analysis

of Groundwater Flow Models serves as a valuable resource for graduate and PhD students as well as researchers working within the field of groundwater modeling   *Mathematical Models and Methods for Smart Material* Mauro Fabrizio,2002 This book contains the papers presented at the conference on OC Mathematical Models and Methods for Smart MaterialsOCO held in Italy in 2001 The papers are divided into four parts OCOMethods in Materials ScienceOCO deals mainly with mathematical techniques for the investigation of physical systems such as liquid crystals materials with internal variables amorphous materials and thermoelastic materials Also techniques are exhibited for the analysis of stability and controllability of classical models of continuum mechanics and of dynamical systems OCOModelling of Smart MaterialsOCO is devoted to models of superfluids superconductors materials with memory nonlinear elastic solids and damaged materials In the elaboration of the models thermodynamic aspects play a central role in the characterization of the constitutive properties OCOWell Posedness in Materials with MemoryOCO deals with existence uniqueness and stability for the solution of problems most often expressed by integrodifferential equations which involve materials with fading memory Also attention is given to exponential decay in viscoelasticity inverse problems in heat conduction with memory and automatic control for parabolic equations OCOAnalytic Problems in Phase TransitionsOCO discusses nonlinear partial differential equations associated with phase transitions and hysteresis possibly involving fading memory effects Particular applications are developed for the phase field model with memory the Stefan problem with a Cattaneo type equation the hysteresis in thermo visco plasticity and the solid solid phase transition   **Mathematical Models And Methods For Smart Materials** Mauro Fabrizio,Barbara Lazzari,Angelo Morro,2002-12-16 This book contains the papers presented at the conference on Mathematical Models and Methods for Smart Materials held in Italy in 2001 The papers are divided into four parts Methods in Materials Science deals mainly with mathematical techniques for the investigation of physical systems such as liquid crystals materials with internal variables amorphous materials and thermoelastic materials Also techniques are exhibited for the analysis of stability and controllability of classical models of continuum mechanics and of dynamical systems Modelling of Smart Materials is devoted to models of superfluids superconductors materials with memory nonlinear elastic solids and damaged materials In the elaboration of the models thermodynamic aspects play a central role in the characterization of the constitutive properties Well Posedness in Materials with Memory deals with existence uniqueness and stability for the solution of problems most often expressed by integrodifferential equations which involve materials with fading memory Also attention is given to exponential decay in viscoelasticity inverse problems in heat conduction with memory and automatic control for parabolic equations Analytic Problems in Phase Transitions discusses nonlinear partial differential equations associated with phase transitions and hysteresis possibly involving fading memory effects Particular applications are developed for the phase field model with memory the Stefan problem with a Cattaneo type equation the hysteresis in thermo visco plasticity and the solid solid phase transition   Mathematical Modeling in Economics, Ecology and the Environment

Natali Hritonenko,Yuri Yatsenko,2014-01-08 Updated to textbook form by popular demand this second edition discusses diverse mathematical models used in economics ecology and the environmental sciences with emphasis on control and optimization It is intended for graduate and upper undergraduate course use however applied mathematicians industry practitioners and a vast number of interdisciplinary academics will find the presentation highly useful Core topics of this text are Economic growth and technological development Population dynamics and human impact on the environment Resource extraction and scarcity Air and water contamination Rational management of the economy and environment Climate change and global dynamics The step by step approach taken is problem based and easy to follow The authors aptly demonstrate that the same models may be used to describe different economic and environmental processes and that similar investigation techniques are applicable to analyze various models Instructors will appreciate the substantial flexibility that this text allows while designing their own syllabus Chapters are essentially self contained and may be covered in full in part and in any order Appropriate one and two semester courses include but are not limited to Applied Mathematical Modeling Mathematical Methods in Economics and Environment Models of Biological Systems Applied Optimization Models and Environmental Models Prerequisites for the courses are Calculus and preferably Differential Equations **Power Up Your Math Community** Holly Burwell,Sue Chapman,2024-09-02 A yearlong learning adventure designed to help you build a vibrant math community A powerful math community is an active group of educators students and families alive with positive energy efficacy and a passion for mathematics Students teachers and leaders see themselves and each other as mathematically capable and experience mathematics as a joyful activity Power Up Your Math Community is a hands on 10 month guide designed to help you and your school maximize your students math learning and strengthen your mathematics teaching and learning community Each chapter offers a month s worth of practice based professional learning focused on a desired math habit alongside parallel math problems and learning activities for teachers to use themselves and with students This format allows educators to work together to improve math teaching and learning across a school year building a strong foundation for students mathematical proficiency identity and agency The book ignites solutions and advocates for rigorous and joyful mathematics instruction for everyone including school leaders teachers students and their families Authors Holly Burwell and Sue Chapman provide educators with a detailed roadmap for creating a positive and effective math community that supports all students mathematical learning by Offering guidance on building a math community with chapter vignettes and prompts such as Mathematical Me Let s Do Some Math Since We Met Last Let s Try It Math Talks Manipulatives and Models Matter Game Time and more Emphasizing an assets based approach to teaching math that recognizes the unique strengths and experiences of each student Providing strategies for promoting growth mindset in math and equity and inclusion in math education Focusing on both classroom level and building level improvement as well as offering support for teachers instructional coaches principals and district leaders Power Up Your Math Community will inspire you to reimagine the way

you teach math and empower you with the tools to make a lasting impact on your students mathematical understanding So get ready to power up your math community and watch as your students thrive in their mathematical journey

Explorations of Mathematical Models in Biology with MATLAB Mazen Shahin,2016-03-15 Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data algorithms and models it has become necessary to use a computing language such as the user friendly MATLAB to focus more on building and analyzing models as opposed to configuring tedious calculations Explorations of Mathematical Models in Biology with MATLAB provides an introduction to model creation using MATLAB followed by the translation analysis interpretation and observation of the models With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications the book illustrates numerous applications of mathematical techniques within biology ecology and environmental sciences Featuring a quantitative computational and mathematical approach the book includes Examples of real world applications such as population dynamics genetics drug administration interacting species and the spread of contagious diseases to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts such as Markov chains matrix algebra eigenvalues eigenvectors first order linear difference equations and nonlinear first order difference equations Coverage of difference equations to model a wide range of real life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional MATLAB codes Explorations of Mathematical Models in Biology with MATLAB is an ideal textbook for upper undergraduate courses in mathematical models in biology theoretical ecology bioeconomics forensic science applied mathematics and environmental science The book is also an excellent reference for biologists ecologists mathematicians biomathematicians and environmental and resource economists

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