

Mathematical Models

Mathematical Models in Engineering, Science, and Finance

Richard Haberman

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In Applied Mathematics

21

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Lingsheng Yao



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Mathematical Models Richard Haberman, 1998-12-01 The author uses mathematical techniques along with observations and experiments to give an in depth look at models for mechanical vibrations population dynamics and traffic flow Equal emphasis is placed on the mathematical formulation of the problem and the interpretation of the results In the sections on mechanical vibrations and population dynamics the author emphasizes the nonlinear aspects of ordinary differential equations and develops the concepts of equilibrium solutions and their stability He introduces phase plane methods for the nonlinear pendulum and for predator prey and competing species models Haberman develops the method of characteristics to analyze the nonlinear partial differential equations that describe traffic flow Fan shaped characteristics describe the traffic situation that occurs when a traffic light turns green and shock waves describe the effects of a red light or traffic accident Although it was written over 20 years ago this book is still relevant It is intended as an introduction to applied mathematics but can be used for undergraduate courses in mathematical modeling or nonlinear dynamical systems or to supplement courses in ordinary or partial differential equations

An Introduction to Partial Differential Equations Daniel Arrigo, 2023-01-20 This textbook is an introduction to the methods needed to solve partial differential equations PDEs Readers are introduced to PDEs that come from a variety of fields in engineering and the natural sciences The chapters include the following topics First Order PDEs Second Order PDEs Fourier Series Separation of Variables the Fourier Transform and higher dimensional problems Readers are guided through these chapters where techniques for solving first and second order PDEs are introduced Each chapter ends with series of exercises to facilitate learning as well as illustrate the material presented in each chapter

Nonlinear Partial Differential Equations for Scientists and Engineers Lokenath Debnath, 2011-10-06 The revised and enlarged third edition of this successful book presents a comprehensive and systematic treatment of linear and nonlinear partial differential equations and their varied and updated applications In an effort to make the book more useful for a diverse readership updated modern examples of applications are chosen from areas of fluid dynamics gas dynamics plasma physics nonlinear dynamics quantum mechanics nonlinear optics acoustics and wave propagation Nonlinear Partial Differential Equations for Scientists and Engineers Third Edition improves on an already highly complete and accessible resource for graduate students and professionals in mathematics physics science and engineering It may be used to great effect as a course textbook research reference or self study guide

Discovering Evolution Equations with Applications Mark McKibben, 2011-06-03 Most existing books on evolution equations tend either to cover a particular class of equations in too much depth for beginners or focus on a very specific research direction Thus the field can be daunting for newcomers to the field who need access to preliminary material and behind the scenes detail Taking an applications oriented conversation

Front Tracking for Hyperbolic Conservation Laws Helge Holden, Nils Henrik Risebro, 2015-12-10 This is the second edition of a well received book providing the fundamentals of the theory

hyperbolic conservation laws Several chapters have been rewritten new material has been added in particular a chapter on space dependent flux functions and the detailed solution of the Riemann problem for the Euler equations Hyperbolic conservation laws are central in the theory of nonlinear partial differential equations and in science and technology The reader is given a self contained presentation using front tracking which is also a numerical method The multidimensional scalar case and the case of systems on the line are treated in detail A chapter on finite differences is included From the reviews of the first edition It is already one of the few best digests on this topic The present book is an excellent compromise between theory and practice Students will appreciate the lively and accurate style D Serre MathSciNet I have read the book with great pleasure and I can recommend it to experts as well as students It can also be used for reliable and very exciting basis for a one semester graduate course S Noelle Book review German Math Soc Making it an ideal first book for the theory of nonlinear partial differential equations an excellent reference for a graduate course on nonlinear conservation laws M Laforest Comp Phys Comm

One-dimensional Hyperbolic Conservation Laws And Their Applications Jean-michel Coron, Tatsien Li, Yachun Li, 2019-01-08 This book is a collection of lecture notes for the LIASFMA Shanghai Summer School on One dimensional Hyperbolic Conservation Laws and Their Applications which was held during August 16 to August 27 2015 at Shanghai Jiao Tong University Shanghai China This summer school is one of the activities promoted by Sino French International Associate Laboratory in Applied Mathematics LIASFMA in short LIASFMA was established jointly by eight institutions in China and France in 2014 which is aimed at providing a platform for some of the leading French and Chinese mathematicians to conduct in depth researches extensive exchanges and student training in the field of applied mathematics This summer school has the privilege of being the first summer school of the newly established LIASFMA which makes it significant

Introduction to Ordinary Differential Equations Stephen H. Saperstone, 1998 This text s integrated applications and models along with graphical and numerical procedures motivate and explain mathematical techniques Applied exercises are drawn from a variety of fields including engineering and life sciences Numerical methods are covered early and woven throughout the text The author uses a spiraling approach to develop more abstract concepts so students aren t overwhelmed with definitions and theorems at first

Engineering Systems Analysis, Setup and Solution Charles M. Haberman, 1965

The Zoological Record, 1982 Zoological Record is published annually in separate sections The first of these is Comprehensive Zoology followed by sections recording a year s literature relating to a Phylum or Class of the Animal Kingdom The final section contains the new genera and subgenera indexed in the volume Each section of a volume lists the sections of that volume

Subject Guide to Books in Print, 1993

Modeling with Differential Equations in Chemical Engineering Stanley M. Walas, 1991 Modelling with Differential Equations in Chemical Engineering covers the modelling of rate processes of engineering in terms of differential equations While it includes the purely mathematical aspects of the solution of differential equations the main emphasis is on the derivation and solution of

major equations of engineering and applied science Methods of solving differential equations by analytical and numerical means are presented in detail with many solved examples and problems for solution by the reader Emphasis is placed on numerical and computer methods of solution A key chapter in the book is devoted to the principles of mathematical modelling These principles are applied to the equations in important engineering areas The major disciplines covered are thermodynamics diffusion and mass transfer heat transfer fluid dynamics chemical reactions and automatic control These topics are of particular value to chemical engineers but also are of interest to mechanical civil and environmental engineers as well as applied scientists The material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers

Scientific and Technical Books and Serials in Print ,1984 **New Technical Books** New York Public Library,1977 Bulletin of the American Mathematical Society American Mathematical Society,1978

The American Mathematical Monthly ,1894 Includes articles as well as notes and other features about mathematics and the profession **Spray Literature Abstracts** Kalman John De Juhasz,1967 Combined Numerical/Analytical Perturbation Solutions of the Navier-Stokes Equations for Aerodynamic Ejector/Mixer Nozzle Flows Lawrence Justin De Chant,1998 *Effects of Sorption Behavior on Contaminant Migration* T. W. Melnyk,1985 **Russian Mathematical Surveys** ,2008 Pure and Applied Science Books, 1876-1982 ,1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes

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