Editorial

Advanced Mathematical Methods:
Theory and Applications

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The many technical and computational problems that appear to be constantly emerging in various branches of physics and engineering beg for a more detailed understanding of the fundamental mathematics that serves as the cornerstone of our way of understanding natural phenomena. The purpose of this Special Issue is to establish a brief collection of carefully selected articles authored by promising young scientists and the world's leading experts in pure and applied mathematics, highlighting the state–of–the–art of the various research lines focusing on the study of analytical and numerical mathematical methods for pure and applied sciences.

Our collection opens with a featured review article [1], by Yuri Luchko, aimed at providing a pedagogical discussion of the role of integral transforms in mathematical physics, with particular regard for the Laplace and Mellin transforms. We continue with another survey paper [2], by Roberto Garrappa, Eva Kaslik, and Marina Popolizio, dedicated to an in–depth analysis evaluation of fractional integrals and derivatives of some elementary functions. Similarly to the first article, the work of R. Garrappa et al. is very pedagogical in nature and can serve as an effective reference to those who wish to gradually approach the study of numerical aspects of fractional calculus.

This collection then continues with two important featured articles. Specifically, it starts with the work [3], by Emilia Bazhlekova and Ivan Bazhlekov, concerning a subordination approach to the multi–dimensional space–time fractional diffusion equation. In detail, the fundamental solution of this equation is studied by means of the subordination principle, which in turn provides a relation to the classical Gaussian function. We then move to the contribution [4], by Silvia Vitali, Iva Budimir, Claudio Runfola, and Gastone Castellani, dedicated to the study of the role of the central limit theorem within the framework of an heterogeneous ensemble of Brownian particles (dubbed the HEBP approach, for short).

The collection then closes with a series of eight very interesting original contributions. We begin this series with the work of Marina Popolizio [5] analyzing numerical properties and theoretical features of the Mittag–Leffler function with matrix arguments. It is then followed by an interesting note [6] on a generalization of the time–fractional relativistic diffusion equation based on the application of Caputo fractional derivatives of a function with respect to another function, by Luisa Beghin and Roberto Garra. We then move to biophysical modeling with the inspiring work [7] by Berardino D'Acunto, Luigi Frunzo, Vincenzo Luongo, and Maria Rosaria Mattei, in which the authors propose a mathematical model of heavy metal sorption and interaction in a multispecies biofilm. We then continue with a pedagogical article on space–time exterior calculus [8], and its relation to Maxwell's theory, by Ivano Colombaro, Josep Font-Segura, and Alfonso Martinez. One then finds an interesting proposal for a mathematical model of economic growth with fading memory and a continuous distribution of time–delay. This work [9], by Vasily E. Tarasov, and Valentina V. Tarasova, represents a generalization of the standard Keynesian macroeconomic model based on Abel-type integrals and integro–differential operators involving the confluent hypergeometric Kummer function in the kernel.

Advanced Mathematical Methods

Andrea Giusti,Francesco Mainardi

Advanced Mathematical Methods:

Advanced Mathematical Methods for Scientists and Engineers I Carl M. Bender,Steven A. Orszag,2013-03-09 The triumphant vindication of bold theories are these not the pride and justification of our life s work Sherlock Holmes The Valley of Fear Sir Arthur Conan Doyle The main purpose of our book is to present and explain mathematical methods for obtaining approximate analytical solutions to differential and difference equations that cannot be solved exactly Our objective is to help young and also establiShed scientists and engineers to build the skills necessary to analyze equations that they encounter in their work Our presentation is aimed at developing the insights and techniques that are most useful for attacking new problems We do not emphasize special methods and tricks which work only for the classical transcendental functions we do not dwell on equations whose exact solutions are known The mathematical methods discussed in this book are known collectively as asymptotic and perturbative analysis These are the most useful and powerful methods for finding approximate solutions to equations but they are difficult to justify rigorously Thus we concentrate on the most fruitful aspect of applied analysis namely obtaining the answer We stress care but not rigor To explain our approach we compare our goals with those of a freshman calculus course A beginning calculus course is considered successful if the students have learned how to solve problems using calculus   Advanced Mathematical Methods with Maple Derek Richards,2002 A user friendly student guide to computer assisted algebra with mathematical software packages such as Maple   **Advanced Mathematical Methods in Science and Engineering** S.I. Hayek,2000-10-13 Gathering an extensive range of mathematical topics into a plenary reference text for solving science and engineering problems Advanced Mathematical Models in Science and Engineering elucidates integral methods field equation derivations and operations applicable to modern science systems Applying academic skills to practical problems in science and engineering the author reviews basic methods of integration and series solutions for ordinary differential equations introduces derivations and solution methods for linear boundary value problems in one dimension covering eigenfunctions and eigenfunction expansions orthogonality and adjoint and self adjoint systems discusses complex variables calculus and integrals as well as application of residues and the integration of multivalued functions considers linear partial differential equations in classical physics and engineering with derivations for the topics of wave equations heat flow vibration and strength of materials clarifies the calculus for integral transforms explains Green s functions for ordinary and partial differential equations for unbounded and bounded media examines asymptotic methods presents methods for asymptotic solutions of ordinary differential equations and more   *Advanced Mathematical Methods in Science and Engineering* Sabih I. Hayek,2011   *Lectures on Advanced Mathematical Methods for Physicists* Sunil Mukhi,N. Mukunda,2010 This book presents a survey of Topology and Differential Geometry and also Lie Groups and Algebras and their Representations The first topic is indispensable to students of gravitation and related areas of modern physics including string theory while the second has applications in gauge theory and particle physics integrable systems and

nuclear physics Part I provides a simple introduction to basic topology followed by a survey of homotopy Calculus of differentiable manifolds is then developed and a Riemannian metric is introduced along with the key concepts of connections and curvature The final chapters lay out the basic notions of simplicial homology and De Rham cohomology as well as fibre bundles particularly tangent and cotangent bundles Part II starts with a review of group theory followed by the basics of representation theory A thorough description of Lie groups and algebras is presented with their structure constants and linear representations Root systems and their classifications are detailed and this section of the book concludes with the description of representations of simple Lie algebras emphasizing spinor representations of orthogonal and pseudo orthogonal groups The style of presentation is succinct and precise Involved mathematical proofs that are not of primary importance to physics student are omitted The book aims to provide the reader access to a wide variety of sources in the current literature in addition to being a textbook of advanced mathematical methods for physicists   Advanced Mathematical Methods for Finance Julia Di Nunno,Bernt Øksendal,2011-03-29 This book presents innovations in the mathematical foundations of financial analysis and numerical methods for finance and applications to the modeling of risk The topics selected include measures of risk credit contagion insider trading information in finance stochastic control and its applications to portfolio choices and liquidation models of liquidity pricing and hedging The models presented are based on the use of Brownian motion L vy processes and jump diffusions Moreover fractional Brownian motion and ambit processes are also introduced at various levels The chosen blend of topics gives an overview of the frontiers of mathematics for finance New results new methods and new models are all introduced in different forms according to the subject Additionally the existing literature on the topic is reviewed The diversity of the topics makes the book suitable for graduate students researchers and practitioners in the areas of financial modeling and quantitative finance The chapters will also be of interest to experts in the financial market interested in new methods and products This volume presents the results of the European ESF research networking program Advanced Mathematical Methods for Finance   *Advanced Mathematical Methods* Adam Ostaszewski,1990 This text is a self contained second course on mathematical methods dealing with topics in linear algebra and multivariate calculus that can be applied to statistics   **Advanced Mathematical Methods for Scientists and Engineers I** Carl M. Bender,Steven A. Orszag,1999-10-29 A clear practical and self contained presentation of the methods of asymptotics and perturbation theory for obtaining approximate analytical solutions to differential and difference equations Aimed at teaching the most useful insights in approaching new problems the text avoids special methods and tricks that only work for particular problems Intended for graduates and advanced undergraduates it assumes only a limited familiarity with differential equations and complex variables The presentation begins with a review of differential and difference equations then develops local asymptotic methods for such equations and explains perturbation and summation theory before concluding with an exposition of global asymptotic methods Emphasizing applications the discussion stresses care rather

than rigor and relies on many well chosen examples to teach readers how an applied mathematician tackles problems There are 190 computer generated plots and tables comparing approximate and exact solutions over 600 problems of varying levels of difficulty and an appendix summarizing the properties of special functions **Advanced Mathematical Methods for Engineering and Science Students** G. Stephenson,P. M. Radmore,1990-04-12 A solid foundation for a number of topics of interest to science and engineering students is provided in this self contained text that assumes only a basic understanding of related mathematics *Advanced Mathematical Methods* Andrea Giusti,Francesco Mainardi,2020-02-05 The many technical and computational problems that appear to be constantly emerging in various branches of physics and engineering beg for a more detailed understanding of the fundamental mathematics that serves as the cornerstone of our way of understanding natural phenomena The purpose of this Special Issue was to establish a brief collection of carefully selected articles authored by promising young scientists and the world s leading experts in pure and applied mathematics highlighting the state of the art of the various research lines focusing on the study of analytical and numerical mathematical methods for pure and applied sciences **Advanced Mathematics: Mathematical Methods, Systems and Applications** Zayne Young,2023-09-19 The field of study which focuses on numbers formulas and associated structures shapes and the spaces which contained them and quantities and their changes is known as mathematics Advanced mathematics is involved in the study of problems which cannot be solved using basic mathematical methods They require a detailed understanding of the fundamentals of mathematics and advanced mathematical models The advanced mathematical methods are involved in the study of several topics in linear algebra and multivariate calculus Some applications of these models are in areas such as statistics operations research computer science econometrics and mathematical economics This book outlines the mathematical methods systems and applications used in advanced mathematics in detail It consists of the contributions made by scientists and leading experts in advanced mathematics The book is an essential guide for both academicians and those who wish to pursue this discipline further *Advanced Mathematical Methods in Engineering* Sabih I. Hayek,1991

Advanced Mathematical Methods with Maple Derek Richards,2009-06 The last five years of the 20th century have seen an immense growth in the use of symbolic computing and mathematical software packages such as Maple This book provides an introduction to computer assisted algebra with Maple **Advanced Mathematical Methods in Biosciences and Applications** Faina Berezovskaya,Bourama Toni,2019-09-19 Featuring contributions from experts in mathematical biology and biomedical research this edited volume covers a diverse set of topics on mathematical methods and applications in the biosciences Topics focus on advanced mathematical methods with chapters on the mathematical analysis of the quasispecies model Arnold s weak resonance equation bifurcation analysis and the Tonnelier Gerstner model Special emphasis is placed on applications such as natural selection population heterogeneity polyvariant ontogeny in plants cancer dynamics and analytical solutions for traveling pulses and wave trains in neural models A survey on quasiperiodic topology is

also presented in this book Carefully peer reviewed this volume is suitable for students interested in interdisciplinary research Researchers in applied mathematics and the biosciences will find this book an important resource on the latest developments in the field In keeping with the STEAM H series the editors hope to inspire interdisciplinary understanding and collaboration *Advanced Mathematical Methods* Open University M833/Course,1998 **Advanced Mathematical Methods for Scientists and Engineers I** Carl M. Bender,Steven A. Orszag,1999-10-29 A clear practical and self contained presentation of the methods of asymptotics and perturbation theory for obtaining approximate analytical solutions to differential and difference equations Aimed at teaching the most useful insights in approaching new problems the text avoids special methods and tricks that only work for particular problems Intended for graduates and advanced undergraduates it assumes only a limited familiarity with differential equations and complex variables The presentation begins with a review of differential and difference equations then develops local asymptotic methods for such equations and explains perturbation and summation theory before concluding with an exposition of global asymptotic methods Emphasizing applications the discussion stresses care rather than rigor and relies on many well chosen examples to teach readers how an applied mathematician tackles problems There are 190 computer generated plots and tables comparing approximate and exact solutions over 600 problems of varying levels of difficulty and an appendix summarizing the properties of special functions **Advanced Mathematical Techniques in Engineering Sciences** Mangey Ram,J. Paulo Davim,2018-05-04 The goal of this book is to publish the latest mathematical techniques research and developments in engineering This book includes a comprehensive range of mathematics applied in engineering areas for different tasks Various mathematical tools techniques strategies and methods in engineering applications are covered in each chapter Mathematical techniques are the strength of engineering sciences and form the common foundation of all novel disciplines within the field Advanced Mathematical Techniques in Engineering Sciences provides an ample range of mathematical tools and techniques applied across various fields of engineering sciences Using this book engineers will gain a greater understanding of the practical applications of mathematics in engineering sciences Features Covers the mathematical techniques applied in engineering sciences Focuses on the latest research in the field of engineering applications Provides insights on an international and transnational scale Offers new studies and research in modeling and simulation *Advanced Mathematical Methods for Engineering* G. Stephenson,1990 **Advanced Mathematical Techniques in Computational and Intelligent Systems** Sandeep Singh,Aliakbar Montazer Haghighi,Sandeep Dalal,2023-11-20 This book comprehensively discusses the modeling of real world industrial problems and innovative optimization techniques such as heuristics finite methods operation research techniques intelligent algorithms and agent based methods Discusses advanced techniques such as key cell Mobius inversion and zero suffix techniques to find initial feasible solutions to optimization problems Provides a useful guide toward the development of a sustainable model for disaster management Presents optimized hybrid block method techniques to solve

mathematical problems existing in the industries Covers mathematical techniques such as Laplace transformation stochastic process and differential techniques related to reliability theory Highlights application on smart agriculture smart healthcare techniques for disaster management and smart manufacturing Advanced Mathematical Techniques in Computational and Intelligent Systems is primarily written for graduate and senior undergraduate students as well as academic researchers in electrical engineering electronics and communications engineering computer engineering and mathematics

Mathematical Methods in Data Science Jingli Ren,Haiyan Wang,2023-01-06 Mathematical Methods in Data Science covers a broad range of mathematical tools used in data science including calculus linear algebra optimization network analysis probability and differential equations Based on the authors recently published and previously unpublished results this book introduces a new approach based on network analysis to integrate big data into the framework of ordinary and partial differential equations for dataanalysis and prediction With data science being used in virtually every aspect of our society the book includes examples and problems arising in data science and the clear explanation of advanced mathematical concepts especially data driven differential equations making it accessible to researchers and graduate students in mathematics and data science Combines a broad spectrum of mathematics including linear algebra optimization network analysis and ordinary and partial differential equations for data science Written by two researchers who are actively applying mathematical and statistical methods as well as ODE and PDE for data analysis and prediction Highly interdisciplinary with content spanning mathematics data science social media analysis network science financial markets and more Presents a wide spectrum of topics in a logical order including probability linear algebra calculus and optimization networks ordinary differential and partial differential equations

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