

Mathematical Methods for Students of Physics and Related Fields

Second Edition



Sadri Hassani

 Springer

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Marco Aurelio Dos Santos Bernardes



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Mathematical Methods Using Mathematica® Sadri Hassani, 2003-06-11 Intended as a companion for textbooks in mathematical methods for science and engineering this book presents a large number of numerical topics and exercises together with discussions of methods for solving such problems using Mathematica R The accompanying CD contains Mathematica Notebooks for illustrating most of the topics in the text and for solving problems in mathematical physics Although it is primarily designed for use with the author's Mathematical Methods For Students of Physics and Related Fields the discussions in the book sufficiently self contained that the book can be used as a supplement to any of the standard textbooks in mathematical methods for undergraduate students of physical sciences or engineering Mathematical Methods Sadri Hassani, 2013-11-11 Intended to follow the usual introductory physics courses this book has the unique feature of addressing the mathematical needs of sophomores and juniors in physics engineering and other related fields Beginning with reviews of vector algebra and differential and integral calculus the book continues with infinite series vector analysis complex algebra and analysis ordinary and partial differential equations Discussions of numerical analysis nonlinear dynamics and chaos and the Dirac delta function provide an introduction to modern topics in mathematical physics This new edition has been made more user friendly through organization into convenient shorter chapters Also it includes an entirely new section on Probability and plenty of new material on tensors and integral transforms Some praise for the previous edition The book has many strengths For example Each chapter starts with a preamble that puts the chapters in context Often the author uses physical examples to motivate definitions illustrate relationships or culminate the development of particular mathematical strands The use of Maxwell's equations to cap the presentation of vector calculus a discussion that includes some tidbits about what led Maxwell to the displacement current is a particularly enjoyable example Historical touches like this are not isolated cases the book includes a large number of notes on people and ideas subtly reminding the student that science and mathematics are continuing and fascinating human activities Physics Today Very well written i e extremely readable very well targeted mainly to an average student of physics at a point of just leaving his/her sophomore level and very well concentrated to an author's apparently beloved subject of PDE's with applications and with all their necessary pedagogically mathematical background The main merits of the text are its clarity achieved via returns and innovations of the context balance building the subject step by step and originality recollect the existence of the complex numbers is only admitted far in the second half of the text Last but not least the student reader is impressed by the graphical quality of the text figures first of all but also boxes with the essentials summarizing comments in the left column etc Summarizing Well done Zentralblatt MATH **Mathematical Topics on Modelling Complex Systems** J. A. Tenreiro Machado, Dimitri Volchenkov, 2022-06-08 This book explores recent developments in theoretical research and mathematical modelling of real world complex systems organized in four parts The first part of the book is devoted to the mathematical

tools for the design and analysis in engineering and social science study cases We discuss the periodic evolutions in nonlinear chemical processes vibro compact systems and their behaviour different types of metal semiconductor self assembled samples made of silver nanowires and zinc oxide nanorods The second part of the book is devoted to mathematical description and modelling of the critical events climate change and robust emergency scales In three chapters we consider a climate economy model with endogenous carbon intensity and the behaviour of Tehran Stock Exchange market under international sanctions The third part of the book is devoted to fractional dynamic and fractional control problems We discuss the novel operational matrix technique for variable order fractional optimal control problems the nonlinear variable order time fractional convection diffusion equation with generalized polynomials The fourth part of the book concerns solvability and inverse problems in differential and integro differential equations The book facilitates a better understanding of the mechanisms and phenomena in nonlinear dynamics and develops the corresponding mathematical theory to apply nonlinear design to practical engineering It can be read by mathematicians physicists complex systems scientists IT specialists civil engineers data scientists and urban planners

Problems and Solutions on Vector Spaces for Physicists Robert B. Scott, 2023-08-09 This book offers supporting material for the comprehensive textbook *Mathematical Physics A Modern Introduction to Its Foundations* authored by Sadri Hassani The book covers mathematical preliminaries and all of Part I in Hassani s textbook The subjects covered here include the key topics necessary for physicists to form a solid mathematical foundation vectors and linear maps algebras operators matrices and spectral decomposition In particular the vector space concept is a central unifying theme in later chapters of Hassani s textbook Detailed solutions are provided to one third of the end of chapter exercises in the first six chapters of his text The present volume helps upper undergraduate and early postgraduate physics students deepen their understanding of the mathematics that they encounter in physics learn physics more efficiently and use mathematics with more confidence and creativity The content is thus presented rigorously but remains accessible to physics students New exercises are also proposed some with solutions some without so that the total number of unsolved exercises remains unchanged They are chosen to help explain difficult concepts amplify key points in Hassani s textbook or make further connections with applications in physics Taken together with Hassani s work the two form a self contained set and the solutions make detailed reference to Hassani s text The solutions also refer to other mathematics and physics textbooks providing entry points to further literature that finds a useful place in the physicist s personal library

Recent Trends in Fractional Calculus and Its Applications Praveen Agarwal, Luis Vázquez Martínez, Ervin K. Lenzi, 2024-07-02 *Recent Trends in Fractional Calculus and Its Applications* addresses the answer to this very basic question Why is Fractional Calculus important Until recent times Fractional Calculus was considered as a rather esoteric mathematical theory without applications but in the last few decades there has been an explosion of research activities on the application of Fractional Calculus to very diverse scientific fields ranging from the physics of diffusion and advection

phenomena to control systems to finance and economics An important part of mathematical modelling of objects and processes is a description of their dynamics The term Fractional Calculus is more than 300 years old It is a generalization of the ordinary differentiation and integration to noninteger arbitrary order The subject is as old as the calculus of differentiation and goes back to times when Leibniz Gauss and Newton invented this kind of calculation Several mathematicians contributed to this subject over the years People like Liouville Riemann and Weyl made major contributions to the theory of Fractional Calculus In recent decades the field of Fractional Calculus has attracted the interest of researchers in several areas including mathematics physics chemistry engineering finance and social sciences Provides the most recent and up to date developments in the Fractional Calculus and its application areas Presents pre preparation ideas to help researchers scientists clinicians face the new challenges in the application of fractional differential equations Helps researchers and scientists understand the importance of the Fractional Calculus to solve many problems in Biomedical Engineering and applied sciences

[Developments in Heat Transfer](#) Marco Aurelio Dos Santos Bernardes,2011-09-15 This book comprises heat transfer fundamental concepts and modes specifically conduction convection and radiation bioheat entransy theory development micro heat transfer high temperature applications turbulent shear flows mass transfer heat pipes design optimization medical therapies fiber optics heat transfer in surfactant solutions landmine detection heat exchangers radiant floor packed bed thermal storage systems inverse space marching method heat transfer in short slot ducts freezing an drying mechanisms variable property effects in heat transfer heat transfer in electronics and process industries fission track thermochronology combustion heat transfer in liquid metal flows human comfort in underground mining heat transfer on electrical discharge machining and mixing convection The experimental and theoretical investigations assessment and enhancement techniques illustrated here aspire to be useful for many researchers scientists engineers and graduate students

Mathematical Reviews ,2008 [Applied Mechanics Reviews](#) ,1972 [Mathematical Optics](#) Vasudevan Lakshminarayanan,María L. Calvo,Tatiana Alieva,2018-10-08 Going beyond standard introductory texts Mathematical Optics Classical Quantum and Computational Methods brings together many new mathematical techniques from optical science and engineering research Profusely illustrated the book makes the material accessible to students and newcomers to the field Divided into six parts the text presents state of the art mathematical methods and applications in classical optics quantum optics and image processing Part I describes the use of phase space concepts to characterize optical beams and the application of dynamic programming in optical waveguides Part II explores solutions to paraxial linear and nonlinear wave equations Part III discusses cutting edge areas in transformation optics such as invisibility cloaks and computational plasmonics Part IV uses Lorentz groups dihedral group symmetry Lie algebras and Liouville space to analyze problems in polarization ray optics visual optics and quantum optics Part V examines the role of coherence functions in modern laser physics and explains how to apply quantum memory channel models in quantum computers Part VI introduces

super resolution imaging and differential geometric methods in image processing As numerical symbolic computation is an important tool for solving numerous real life problems in optical science many chapters include Mathematica code in their appendices The software codes and notebooks as well as color versions of the book s figures are available at www.crcpress.com **Choice** ,2004 **Book Review Index** ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index

Foundations of Mathematical Physics Sadri Hassani,1991 **SIAM Journal on Numerical Analysis** ,2008

Newsletter New Zealand Mathematical Society,2002 **Computational Methods in Applied Mathematics** ,2004

Mathematical Physics Sadri Hassani,2013-07-27 The goal of this book is to expose the reader to the indispensable role that mathematics plays in modern physics Starting with the notion of vector spaces the first half of the book develops topics as diverse as algebras classical orthogonal polynomials Fourier analysis complex analysis differential and integral equations operator theory and multi dimensional Green s functions The second half of the book introduces groups manifolds Lie groups and their representations Clifford algebras and their representations and fibre bundles and their applications to differential geometry and gauge theories This second edition is a substantial revision with a complete rewriting of many chapters and the addition of new ones including chapters on algebras representation of Clifford algebras fibre bundles and gauge theories The spirit of the first edition namely the balance between rigour and physical application has been maintained as is the abundance of historical notes and worked out examples that demonstrate the unreasonable effectiveness of mathematics in modern physics Subject Guide to Books in Print ,1993 High Energy Physics Index ,1989 Proceedings ,2005

Thermal and Moisture Transport in Fibrous Materials Textile Institute (Manchester, England),2006-10-30 The transfer of heat and moisture through textiles is vital to the manufacture and design of clothing technical and protective textiles Continued advances in textile processing technology the growth of manufactured nonwovens and the application of nanotechnology have resulted in a wealth of research in order to characterise the behaviour of these materials Thermal and moisture transport in fibrous materials provides a comprehensive guide of the technological developments and scientific understanding in this area The first section summarises the structure geometry and stereology of fibrous materials The fundamentals of wetting and its dynamics are also discussed Part two analyses thermal and liquid interactions in textiles and offers insights into the thermodynamic behaviour of moisture as well as heat and moisture coupling The book concludes with chapters on the human thermoregulatory system interfacing between fibrous materials and the human body and innovative computer modelling simulations Thermal and moisture transport in fibrous materials is an essential reference for all those involved in the textile industry especially those concerned with the design and manufacture of technical textiles and protective clothing Summarises the structure geometry and stereology of fibrous materials Discusses the fundamentals of wetting and its dynamics Analyses thermal and liquid interactions in textiles

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