

**Mathematics and Its Applications**

**V. G. Bagrov and D. M. Gitman**

**Exact Solutions of  
Relativistic Wave Equations**



**Kluwer Academic Publishers**

# Exact Solutions Of Relativistic Wave Equations Mathematics And Its Applications

**Shasha Hu**



## **Exact Solutions Of Relativistic Wave Equations Mathematics And Its Applications:**

Exact Solutions of Relativistic Wave Equations V.G. Bagrov,D. Gitman,1990-02-28 Et moi si favait su comment en revenir One service mathematics bllS rendered the je n y serais point aile human race It hal put common sense back Jules Verne where it bdongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense able to do something with it Eric T Bell O Heavside 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 service logic has rendered com puter science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d etre of this series Computational Strong-Field Quantum Dynamics Dieter Bauer,2017-04-24 This graduate textbook introduces the com putational techniques to study ultra fast quantum dynamics of matter exposed to strong laser fields Coverage includes methods to propagate wavefunctions according to the time dependent Schr dinger Klein Gordon or Dirac equation the calculation of typical observables time dependent density functional theory multi configurational time dependent Hartree Fock time dependent configuration interaction singles the strong field approximation and the microscopic particle in cell approach Contents How to propagate a wavefunction Calculation of typical strong field observables Time dependent relativistic wave equations Numerics of the Dirac and the Klein Gordon equation Time dependent density functional theory The multiconfiguration time dependent Hartree Fock method Time dependent configuration interaction singles Strong field approximation and quantum orbits Microscopic particle in cell approach Orthogonal Polynomials in Two Variables P.K. Suetin,2022-03-31 Presenting a comprehensive theory of orthogonal polynomials in two real variables and properties of Fourier series in these polynomials this volume also gives cases of orthogonality over a region and on a contour The text includes the classification of differential equations which admits orthogonal polynomials as eigenfunctions and several two dimensional analogies of classical orthogonal polynomials **Guide to Information Sources in Mathematics and Statistics** Martha A. Tucker,Nancy D. Anderson,2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic

resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free

*Mathematical Reviews* ,2004      **Exact Solutions of Relativistic Wave Equations** V.G. Bagrov,D. Gitman,1990-03-14      *New Technical Books* New York Public Library,1991      **Computational Methods in Science and Engineering** George Maroulis,Theodore E. Simos,2009-09-02 The aim of ICCMSE 2008 is to bring together computational scientists and engineers from several disciplines in order to share methods methodologies and ideas The potential readers are all the scientists with interest in Computational Mathematics Theoretical Physics Computational Physics Theoretical Chemistry Computational Chemistry Mathematical Chemistry Computational Engineering Computational Mechanics Computational Biology and Medicine Scientific Computation High Performance Computing Parallel and Distributed Computing Visualization Problem Solving Environments Software Tools Advanced Numerical Algorithms Modelling and Simulation of Complex Systems Web based Simulation and Computing Grid based Simulation and Computing Computational Grids and Computer Science

**Group Theory and Its Applications** Ernest M. Loebl,1968 This book covers the two broad areas of applications of group theory namely all atomic and molecular phenomena as well as all aspects of nuclear structure and elementary particle theory It contains five chapters and begins with the representation and tensor operators of the unitary groups The next chapter describes wave equations both Schrödinger's and Dirac's for a wide variety of potentials These topics are followed by discussions of the applications of dynamical groups in dealing with bound state problems of atomic and molecular physics A chapter explores the connection between the physical constants of motion and the unitary group of the Hamiltonian the symmetry adaptation with respect to arbitrary finite groups and the Dixon method for computing irreducible characters without the occurrence of numerical errors The last chapter deals with the study of the extension representation and applications of Galilei group This book will prove useful to mathematicians practicing engineers and physicists

**Generalized Fractional Order Differential Equations Arising in Physical Models** Santanu Saha Ray,Subhadarshan Sahoo,2018-11-13 This book analyzes the various semi analytical and analytical methods for finding approximate and exact solutions of fractional order partial differential equations It explores approximate and exact solutions obtained by various analytical methods for fractional order partial differential equations arising in physical models

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**Computational Mathematics and Mathematical Physics** ,1992      *Symmetries of Equations of Quantum Mechanics* Vil'gel'm Il'ich Fushchich,Anatoliĭ Glebovich Nikitin,1994      *Propagation of Sound in Air* John W.

Wescott, S. Steven Kushner, 1965 This bibliography contains several thousand abstracts from the unclassified literature on the propagation of sound in air The subject is treated in depth for the years 1929 to 1963 Some abstracts on earlier works of lasting interest and many abstracts from English translations of foreign journals are included The abstracts are grouped according to subject matter Subject and author indexes are furnished Accessions Document AD and earlier ATI numbers used by both the Defense Documentation Center formerly ASTIA and the Office of Technical Services OTS are furnished wherever possible Author

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