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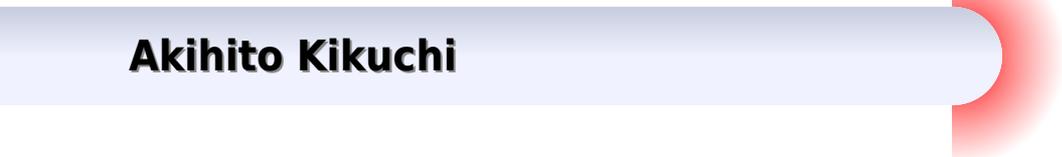
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Quantum Mechanics Using Computer Algebra

Akihito Kikuchi



Quantum Mechanics Using Computer Algebra:

Quantum Mechanics Using Computer Algebra Willi-Hans Steeb, 1994 Solving problems in quantum mechanics is an essential skill and research activity for scientists engineers and others Nowadays the labor of scientific computation has been greatly eased by the advent of computer algebra packages These do not merely perform number crunching tasks but enable users to manipulate algebraic expressions and equations symbolically For example differentiation and integration can now be carried out algebraically by the computer This book collects standard and advanced methods in quantum mechanics and implements them using REDUCE a popular computer algebra package Throughout sample programs and their output have been displayed alongside explanatory text making the book easy to follow Selected problems have also been implemented using two other popular packages MATHEMATICA and MAPLE and in the object oriented programming language C Besides standard quantum mechanical techniques modern developments in quantum theory are also covered These include Fermi and Bose Operators coherent states gauge theory and quantum groups All the special functions relevant to quantum mechanics Hermite Chebyshev Legendre and more are implemented The level of presentation is such that one can get a sound grasp of computational techniques early on in one's scientific education A careful balance is struck between practical computation and the underlying mathematical concepts making the book well suited for use with quantum mechanics courses

Quantum Mechanics Using Computer Algebra: Includes Sample Programs In C++, Symbolic++, Maxima, Maple, And Mathematica (2nd Edition) Willi-hans Steeb, Yorick Hardy, 2010-03-24 Solving problems in quantum mechanics is an essential skill and research activity for physicists mathematicians engineers and others Nowadays the labor of scientific computation has been greatly eased by the advent of computer algebra packages which do not merely perform number crunching but also enable users to manipulate algebraic expressions and equations symbolically For example the manipulations of noncommutative operators differentiation and integration can now be carried out algebraically by the computer algebra package This book collects standard and advanced methods in quantum mechanics and implements them using SymbolicC and Maxima two popular computer algebra packages Throughout the sample programs and their outputs are accompanied with explanatory text of the underlying mathematics and physics explained in detail Selected problems have also been implemented using two other popular packages Mathematica and Maple while some problems are implemented in C Modern developments in quantum theory are covered extensively beyond the standard quantum mechanical techniques The new research topics added to this second edition are entanglement teleportation Berry phase Morse oscillator Magnus expansion wavelets Pauli and Clifford groups coupled Bose Fermi systems super Lie algebras etc *Quantum Mechanics Using Computer Algebra* Willi-hans Steeb, 1994 *Quantum Mechanics Using Computer Algebra* W.-H. Steeb, Yorick Hardy, 2010 This book collects standard and advanced methods in quantum mechanics and implements them using SymbolicC and Maxima two popular computer algebra packages Throughout the sample programs and their outputs are accompanied with

explanatory text of the underlying mathematics and physics explained in detail Selected problems have also been implemented using two other popular packages Mathematica and Maple while some problems are implemented in C Computer Algebra in Quantum Field Theory Carsten Schneider, Johannes Blümlein, 2013-10-05 The book focuses on advanced computer algebra methods and special functions that have striking applications in the context of quantum field theory It presents the state of the art and new methods for infinite multiple sums multiple integrals in particular Feynman integrals difference and differential equations in the format of survey articles The presented techniques emerge from interdisciplinary fields mathematics computer science and theoretical physics the articles are written by mathematicians and physicists with the goal that both groups can learn from the other field including most recent developments Besides that the collection of articles also serves as an up to date handbook of available algorithms software that are commonly used or might be useful in the fields of mathematics physics or other sciences **Quantum Mechanics Using Maple** ® Marko Horbatsch, 2012-12-06 Quantum Mechanics Using Maple permits the study of quantum mechanics in a novel interactive way using the computer algebra and graphics system Maple V Usually the physics student is distracted from understanding the concepts of modern physics by the need to master unfamiliar mathematics at the same time In 39 guided Maple sessions the reader explores many standard quantum mechanics problems as well as some advanced topics that introduce approximation techniques A solid knowledge of Maple V is acquired as it applies to advanced mathematics relevant for engineering physics and applied mathematics The diskette contains 39 Maple V for Windows worksheet files to reproduce all the problems presented in the text The suggested exercises can be performed with a minimum of typing **Quantum Mechanics Built on Algebraic Geometry** Akihito Kikuchi, 2021-01-04 This book presents a novel standpoint concerning contemporary physics namely quantum mechanics with a view toward algebraic geometry As is well known algebraic geometry is the study of geometric objects delineated by polynomials and the polynomial representations are ubiquitous in physics For this reason quantum mechanics is also an object of algebraic geometry An example is the eigenvalue problem It is a set of polynomial equations and has traditionally been the question of linear algebra However the modern method of computational algebraic geometry accurately unravels the information encapsulated in the polynomials This approach shall not remain as a plaything It has betokened an innovative style of electronic structure computation The objects of this new method include the simultaneous determination of the wave functions and the movements of nuclei or the prediction of the required structure that shall show the desired property Accordingly this book explains the basic ideas of computational algebraic geometry and related topics such as Groebner bases primary ideal decomposition Dmodules Galois class field theory etc The intention of the author is nevertheless not to give an irksome list of abstract concepts He hopes that the readers shall use algebraic geometry as the active tool of the computations For this reason this book abundantly presents the model computations by which the readers shall learn how to apply algebraic geometry toward quantum mechanics The readers shall also see the modern computer

algebra could facilitate the study when you would like to apply abstract mathematical ideas to definite physical problems

Computer Algebra With Symbolic++ Yorick Hardy, Willi-hans Steeb, Kiat Shi Tan, 2008-09-04 This book gives a comprehensive introduction to computer algebra together with advanced topics in this field It provides a detailed coverage of the mathematics of computer algebra as well as a step by step guide to implement a computer algebra system in the object oriented language C The used tools from C are introduced in detail Numerous examples from mathematics physics and engineering are presented to illustrate the system s capabilities Computer algebra implementations in LISP and Haskell are also included In addition gene expression programming and multiexpression programming with applications to computer algebra are introduced

Quantum Methods with Mathematica® James F. Feagin, 2002-01-08 Feagin s book was the first publication dealing with Quantum Mechanics using Mathematica the popular software distributed by Wolfram Research and designed to facilitate scientists and engineers to do difficult scientific computations more quickly and more easily Quantum Methods with Mathematica the first book of ist kind has achieved worldwide success and critical acclaim

Dynamical Systems and Applications Ravi P. Agarwal, 1995 World Scientific series in Applicable Analysis WSSIAA aims at reporting new developments of high mathematical standard and current interest Each volume in the series shall be devoted to the mathematical analysis that has been applied or potentially applicable to the solutions of scientific engineering and social problems For the past twenty five years there has been an explosion of interest in the study of nonlinear dynamical systems Mathematical techniques developed during this period have been applied to important nonlinear problems ranging from physics and chemistry to ecology and economics All these developments have made dynamical systems theory an important and attractive branch of mathematics to scientists in many disciplines This rich mathematical subject has been partially represented in this collection of 45 papers by some of the leading researchers in the area This volume contains 45 state of art articles on the mathematical theory of dynamical systems by leading researchers It is hoped that this collection will lead new direction in this field Contributors B Abraham Shrauner V Afraimovich N U Ahmed B Aulbach E J Avila Vales F Battelli J M Blazquez L Block T A Burton R S Cantrell C Y Chan P Collet R Cushman M Denker F N Diacu Y H Ding N S A El Sharif J E Fornæss M Frankel R Galeeva A Galves V Gershkovich M Girardi L Gotusso J Graczyk Y Hino I Hoveijn V Hutson P B Kahn J Kato J Keesling S Keras V Kolmanovskii N V Minh V Mioc K Mischaikow M Misiurewicz J W Mooney M E Muldoon S Murakami M Muraskin A D Myshkis F Neuman J C Newby Y Nishiura Z Nitecki M Ohta G Osipenko N Ozalp M Pollicott Min Qu Donal O Regan E Romanenko V Roytburd L Shaikhet J Shidawara N Sibony W H Steeb C Stoica G Swiatek T Takaishi N D Thai Son R Triggiani A E Tuma E H Twizell M Urbanski T D Van A Vanderbauwhede A Veneziani G Vickers X Xiang T Young Y Zarmi

Quantum Mechanics in Matrix Form Günter Ludyk, 2017-10-25 This book gives an introduction to quantum mechanics with the matrix method Heisenberg s matrix mechanics is described in detail The fundamental equations are derived by algebraic methods using matrix calculus Only a brief description of Schr dinger s wave mechanics is given in most

books exclusively treated to show their equivalence to Heisenberg's matrix method. In the first part the historical development of Quantum theory by Planck, Bohr and Sommerfeld is sketched, followed by the ideas and methods of Heisenberg, Born and Jordan. Then Pauli's spin and exclusion principles are treated. Pauli's exclusion principle leads to the structure of atoms. Finally Dirac's relativistic quantum mechanics is shortly presented. Matrices and matrix equations are today easy to handle when implementing numerical algorithms using standard software as MAPLE and Mathematica.

Bit-string Physics H. Pierre Noyes, J. C. van den Berg, 2001. We could be on the threshold of a scientific revolution. Quantum mechanics is based on unique finite and discrete events. General relativity assumes a continuous curved space-time. Reconciling the two remains the most fundamental unsolved scientific problem left over from the last century. The papers of H. Pierre Noyes collected in this volume reflect one attempt to achieve that unification by replacing the continuum with the bit-string events of computer science. Three principles are used: physics can determine whether two quantities are the same or different; measurement can tell something from nothing; this structure modeled by binary addition and multiplication can leave a historical record consisting of a growing universe of bit strings. This book is specifically addressed to those interested in the foundations of particle physics, relativity, quantum mechanics, physical cosmology and the philosophy of science.

Contents: Non-Localities in Particle Physics; On the Physical Interpretation and the Mathematical Structure of the Combinatorial Hierarchy with T. Bastin, J. Amson; On the Construction of Relativistic Quantum Theory: A Progress Report; Foundations of a Discrete Physics with D. McGoveran; Comment on O. C. Statistical Mechanical Origin of the Entropy of a Rotating Charged Black Hole; O. C. Anti Gravity: The Key to 21st Century Physics; Crossing Symmetry is Incompatible with General Relativity; Operationalism Revisited; Measurement Accuracy, Scale Invariance and the Combinatorial Hierarchy; Discrete Physics and the Derivation of Electromagnetism from the Formalism of Quantum Mechanics with L. H. Kauffman; Are Partons Confined? Tachyons; A Short Introduction to Bit String Physics; Process System Causality and Quantum Mechanics; A Psychoanalysis of Animal Faith with T. Etter and other papers.

Readership: Researchers interested in the foundations of particle physics, relativity, quantum mechanics, physical cosmology and the philosophy of science.

Bose, Spin And Fermi Systems: Problems And Solutions Willi-hans Steeb, Yorick Hardy, 2015-01-19. This book provides a comprehensive collection of problems together with their detailed solutions for Bose, Spin, Fermi systems and also interacting systems. Supplementary problems are also provided. Exercises for representations of Lie groups and Lie algebras are also covered as well as computer algebra implementations. It is the only book which summarizes these topics from the quantum theory aspect in the form of exercises and solutions. The book is also self-contained. Both physicists and mathematicians will benefit from all the different techniques explained and worked out in detail.

Maple in Mathematics Education and Research Jürgen Gerhard, Ilias Kotsireas, 2020-02-27. This book constitutes the refereed proceedings of the third Maple Conference MC 2019 held in Waterloo, Ontario, Canada in October 2019. The 21 revised full papers and 9 short papers were carefully reviewed and

selected out of 37 submissions one invited paper is also presented in the volume The papers included in this book cover topics in education algorithms and applications of the mathematical software Maple *REDUCE for Physicists* N MacDonald,2020-10-28 The use of computer algebra systems in science and engineering has grown rapidly as more people realize their potential to solve tedious and extensive mathematical problems REDUCE for Physicists provides a comprehensive introduction to one of the most widely available and simple to use computer algebra systems focusing primarily on the needs of physicists As a means of performing symbolic computation REDUCE reduces tedious manual algebraic calculations and the dangers of casual errors Each chapter introduces some aspects of REDUCE and illustrates them with applications from various branches of physics including mechanics dynamics dimensional analysis quantum mechanics and plasma physics Emphasizing hands on work with REDUCE to tackle real physical problems the book includes exercises to test understanding throughout Students and researchers in the physical sciences and engineering using REDUCE for the first time will find this book an invaluable aid to learning **Logic and Algebraic Structures in Quantum Computing** Jennifer Chubb,Ali Eskandarian,Valentina Harizanov,2016-02-26 Arising from a special session held at the 2010 North American Annual Meeting of the Association for Symbolic Logic this volume is an international cross disciplinary collaboration with contributions from leading experts exploring connections across their respective fields Themes range from philosophical examination of the foundations of physics and quantum logic to exploitations of the methods and structures of operator theory category theory and knot theory in an effort to gain insight into the fundamental questions in quantum theory and logic The book will appeal to researchers and students working in related fields including logicians mathematicians computer scientists and physicists A brief introduction provides essential background on quantum mechanics and category theory which together with a thematic selection of articles may also serve as the basic material for a graduate course or seminar Quantum Algorithms via Linear Algebra Richard J. Lipton,Kenneth W. Regan,2014-12-05 Quantum computing explained in terms of elementary linear algebra emphasizing computation and algorithms and requiring no background in physics This introduction to quantum algorithms is concise but comprehensive covering many key algorithms It is mathematically rigorous but requires minimal background and assumes no knowledge of quantum theory or quantum mechanics The book explains quantum computation in terms of elementary linear algebra it assumes the reader will have some familiarity with vectors matrices and their basic properties but offers a review of all the relevant material from linear algebra By emphasizing computation and algorithms rather than physics this primer makes quantum algorithms accessible to students and researchers in computer science without the complications of quantum mechanical notation physical concepts and philosophical issues After explaining the development of quantum operations and computations based on linear algebra the book presents the major quantum algorithms from seminal algorithms by Deutsch Jozsa and Simon through Shor s and Grover s algorithms to recent quantum walks It covers quantum gates computational complexity and

some graph theory Mathematical proofs are generally short and straightforward quantum circuits and gates are used to illuminate linear algebra and the discussion of complexity is anchored in computational problems rather than machine models Quantum Algorithms via Linear Algebra is suitable for classroom use or as a reference for computer scientists and mathematicians

Quantum Computing: from Alice to Bob Alice Flarend, Robert Hilborn, Robert C. Hilborn, 2022 A distinctive and accessible introduction to quantum information science and quantum computing this textbook provides a solid conceptual and formal understanding of quantum states and entanglement for undergraduate students and upper level secondary school students with little or no background in physics computer science or mathematics

Investigating a Hybrid Perturbation-Galerkin Technique Using Computer Algebra Carl Marius Andersen, 1988

The Cumulative Book Index, 1997 A world list of books in the English language

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