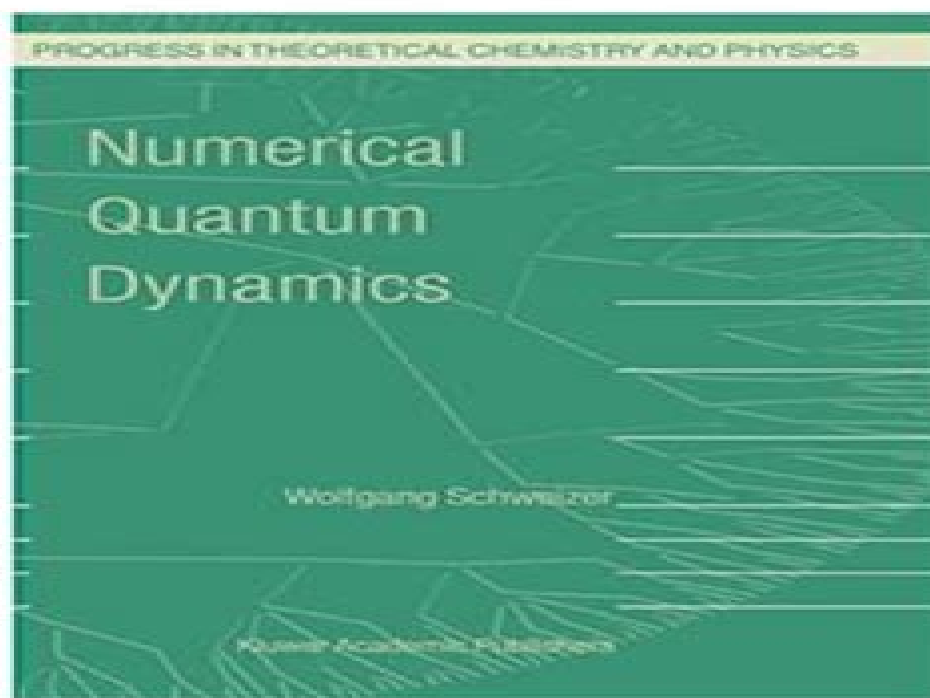


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Quantum Dynamics for Classical Systems Fabio Bagarello, 2012-11-05 Introduces number operators with a focus on the relationship between quantum mechanics and social science Mathematics is increasingly applied to classical problems in finance biology economics and elsewhere Quantum Dynamics for Classical Systems describes how quantum tools the number operator in particular can be used to create dynamical systems in which the variables are operator valued functions and whose results explain the presented model The book presents mathematical results and their applications to concrete systems and discusses the methods used results obtained and techniques developed for the proofs of the results The central ideas of number operators are illuminated while avoiding excessive technicalities that are unnecessary for understanding and learning the various mathematical applications The presented dynamical systems address a variety of contexts and offer clear analyses and explanations of concluded results Additional features in Quantum Dynamics for Classical Systems include Applications across diverse fields including stock markets and population migration as well as a unique quantum perspective on these classes of models Illustrations of the use of creation and annihilation operators for classical problems Examples of the recent increase in research and literature on the many applications of quantum tools in applied mathematics Clarification on numerous misunderstandings and misnomers while shedding light on new approaches in the field Quantum Dynamics for Classical Systems is an ideal reference for researchers professionals and academics in applied mathematics economics physics biology and sociology The book is also excellent for courses in dynamical systems quantum mechanics and mathematical models

Computational Strong-Field Quantum Dynamics Dieter Bauer, 2017-04-24 This graduate textbook introduces the computational 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 Schrödinger 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

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Numerical Methods for Complex Quantum Dynamics with Applications to Quantum Biology and Quantum Many-body Dynamics Robert Rosenbach, 2015 **Quantum Dynamic Imaging** Andre D Bandrauk, Misha

Ivanov,2011-07-12 Studying and using light or photons to image and then to control and transmit molecular information is among the most challenging and significant research fields to emerge in recent years One of the fastest growing areas involves research in the temporal imaging of quantum phenomena ranging from molecular dynamics in the femto 10¹⁵s time regime for atomic motion to the atto 10¹⁸s time scale of electron motion In fact the attosecond revolution is now recognized as one of the most important recent breakthroughs and innovations in the science of the 21st century A major participant in the development of ultrafast femto and attosecond temporal imaging of molecular quantum phenomena has been theory and numerical simulation of the nonlinear non perturbative response of atoms and molecules to ultrashort laser pulses Therefore imaging quantum dynamics is a new frontier of science requiring advanced mathematical approaches for analyzing and solving spatial and temporal multidimensional partial differential equations such as Time Dependent Schroedinger Equations TDSE and Time Dependent Dirac equations TDDEs for relativistic phenomena These equations are also coupled to the photons in Maxwell s equations for collective propagation effects Inversion of the experimental imaging data of quantum dynamics presents new mathematical challenges in the imaging of quantum wave coherences on subatomic subnanometer spatial dimensions and multiple timescales from atto to femto and even nanoseconds In Quantum Dynamic Imaging Theoretical and Numerical Methods leading researchers discuss these exciting state of the art developments and their implications for R D in view of the promise of quantum dynamic imaging science as the essential tool for controlling matter at the molecular level

Computational Methods in Photochemistry Andrei G. Kutateladze,2005-05-05 Addressing critical aspects of computational modeling in photochemistry Molecular Methods in Photochemistry is designed to familiarize researchers and practitioners with state of the art computational methods to predict the reactivity of excited molecules It provides practical guidelines and examples for the modeling of excited states and describ

Third International Conference on Mathematical and Numerical Aspects of Wave Propagation Gary C. Cohen,1995-01-01 This volume contains the papers presented at the title conference Speakers from 13 different countries were represented at the meeting A broad range of topics in theoretical and applied wave propagation is covered

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