

Second Quantization

- Second quantization is one of the most useful representations in many-body theory
- Creation and annihilation operators
 - Denote $|0\rangle$ as the state with no particles (the vacuum)
 - a_i^+ creates a particle in state i : $a_i^+|0\rangle = |i\rangle$, $a_i^+|i\rangle = 0$
 - a_i annihilates a particle in state i : $a_i|i\rangle = |0\rangle$; $a_i|0\rangle = 0$
 - Anti-commutation relations:

$$\{a_i^+, a_j^+\} = \{a_i, a_j\} = 0$$

$$\{a_i, a_j^+\} = \{a_j^+, a_i\} = \delta_{ij}$$

- Many-body Slater determinant

$$\Phi = \frac{1}{\sqrt{A!}} \begin{vmatrix} \phi_i(\mathbf{r}_1) & \phi_i(\mathbf{r}_2) & \dots & \phi_i(\mathbf{r}_A) \\ \phi_j(\mathbf{r}_1) & \phi_j(\mathbf{r}_2) & & \phi_j(\mathbf{r}_A) \\ & \vdots & \ddots & \vdots \\ \phi_l(\mathbf{r}_1) & \phi_l(\mathbf{r}_2) & \dots & \phi_l(\mathbf{r}_A) \end{vmatrix} = \underbrace{a_i^+ \dots a_j^+ a_l^+}_{l > \dots > j > i} |0\rangle$$

Method Of Second Quantization

Brian R. Judd



Method Of Second Quantization:

The Method of Second Quantization F.A. Berazin, 2012-12-02 The Method of Second Quantization deals with the method of second quantization and its use to solve problems of quantum mechanics involving an indefinite number of particles mainly in field theory and quantum statistics Topics covered include operations on generating functionals linear canonical transformations quadratic operators and Thirring's four fermion model State spaces and the simplest operators are also described This book is comprised of four chapters and begins with an overview of the method of second quantization and the relevant notations The first chapter focuses on the connections between vectors and functionals and between operators and functionals together with fundamental rules for operating on functionals The reader is then introduced to the so called quadratic operators and the linear canonical transformations closely connected with them Quadratic operators reduced and not reduced to normal form are considered The final chapter discusses the Thirring model the simplest relativistically invariant model in quantum field theory and explains why it includes infinities This monograph will be of value to students and practitioners of mathematical physics

The Method of Second Quantization Feliks A. Berezin, 1966 *The method of second quantization, tr Feliks Aleksandrovich Berezin, Second Quantization-Based Methods in Quantum Chemistry* Poul Joergensen, 2012-12-02 Second Quantization Based Methods in Quantum Chemistry presents several modern quantum chemical tools that are being applied to electronic states of atoms and molecules Organized into six chapters the book emphasizes the quantum chemical methods whose developments and implementations have been presented in the language of second quantization The opening chapter of the book examines the representation of the electronic Hamiltonian other quantum mechanical operators and state vectors in the second quantization language This chapter also describes the unitary transformations among orthonormal orbitals in an especially convenient manner In subsequent chapters various tools of second quantization are used to describe many approximation techniques such as Hartree Fock perturbation theory configuration interaction multiconfigurational Hartree Fock cluster methods and Green's function This book is an invaluable source for researchers in quantum chemistry and for graduate level students who have already taken introductory courses that cover the fundamentals of quantum mechanics through the Hartree Fock method as applied to atoms and molecules

The Method of Second Quantization Daniel J. Weintraub, 1966 *Brillouin-Wigner Methods for Many-Body Systems* Stephen Wilson, Ivan Hubac, 2009-12-01 Brillouin Wigner Methods for Many Body Systems gives an introduction to many body methods in electronic structure theory for the graduate student and post doctoral researcher It provides researchers in many body physics and theoretical chemistry with an account of Brillouin Wigner methodology as it has been developed in recent years to handle the multireference correlation problem Moreover the frontiers of this research field are defined This volume is of interest to atomic and molecular physicists physical chemists and chemical physicists quantum chemists and condensed matter theorists computational chemists and applied mathematicians

Condensed Matter Field Theory

Alexander Altland, Ben Simons, 2006-06 Primer including problems and solutions for graduate level courses on theoretical quantum condensed matter physics

A Course on Many-body Theory Applied to Solid-state Physics Charles Paul Enz, 1992 The main aim of this book is to give a self contained and representative cross section through present day research in solid state physics This covers metallic and mesoscopic transport localization by disorder and superconductivity including questions related to high temperature superconductors and to heavy fermion systems An important part of the book is devoted to itinerant electron magnetism discussing paramagnons strong correlation magnetization fluctuations and spin density waves All the formal tools used in these chapters are developed in the first part of the book which contains a thorough discussion of second quantization and of perturbation theory for an arbitrary complex time path and also describes the functional approach to Feynman diagrams including general ward identities Each chapter contains an extensive list of the relevant literature and a series of problems with detailed solutions which complement the main text The book is meant both as a course and a research tool

Compendium of Quantum Physics Daniel Greenberger, Klaus Hentschel, Friedel Weinert, 2009-07-25 With contributions by leading quantum physicists philosophers and historians this comprehensive A to Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment It covers technical and interpretational aspects alike and includes both traditional and new concepts making it an indispensable resource for concise up to date information about the many facets of quantum physics

Second Quantization and Atomic Spectroscopy Brian R. Judd, 1967

Introduction to Computational Methods in Many Body Physics Michael Bonitz, Dirk Semkat, 2006 This book is a multi purpose and user friendly textbook covering both fundamentals in thermodynamics and statistical mechanics and numerous applications The emphasis is on simple derivations of simple results which can be compared with experimental data The first half of the book covers basic thermodynamics statistical ensembles Boltzmann and quantum statistics and the second half covers magnetism electrostatic interactions solutions and plasmas non equilibrium statistical mechanics polymers superfluidity renormalization theory and other specialized topics This book while serving well as a reference book for research scientists is especially suitable as a textbook for a one year statistical mechanics course for undergraduate students in physics chemistry engineering biology and material sciences Alternatively the first 5 chapters of the book can be used as the textbook for an undergraduate one semester combined thermodynamics statistical mechanics course or statistical thermodynamics

Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they

should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

The Collected Works of Eugene Paul Wigner Eugene Paul Wigner, 1992 **Nuclear Science Abstracts**, 1953 *Soviet Physics, Solid State*, 1975 **Field Theoretical Methods in Many-body Systems**

David Abramovich Kirzhnits, 1967 *The Collected Works of Eugene Paul Wigner: Eugene Paul Wigner, a biographical sketch. Applied group theory, 1926-1935. The mathematical papers* Eugene Paul Wigner, 1992 **Methods in**

Computational Chemistry Stephen Wilson, 1988 This volume is devoted to methods for the study of the effects of relativity on the electronic structure of atoms and molecules The accurate descrip

tion of relativistic effects in heavy atoms has long been recognized as one of the central problems of atomic physics Contemporary relativistic atomic structure calculations can be performed almost routinely Recent years have seen a growing interest in the study of the effects of relativity on the structure of molecules Even for molecular systems containing atoms from the second row of the periodic table the energy associated with relativistic effects is often larger than that arising from electron correlation For molecules containing heavier atoms relativistic effects become increasingly important

and for systems containing very heavy atoms relativity is known to dominate many chemical properties In this volume one of the pioneers of relativistic atomic structure calculations Ian P Grant provides a detailed survey of the computational techniques employed in contemporary studies of the effects of relativity on atomic structure

This is an area of research in which calculations can often lead to a particularly impressive degree of agreement between theory and experiment Furthermore these atomic studies have provided many of the foundations of a fully relativistic quantum chemistry However the spherical symmetry of atoms allows significant simplifications to be made in their quantum mechanical treatment simplifications which are not possible in studies of molecules In particular as is well known from non

relativistic theories of molecular electronic structure it is almost obligatory to invoke the algebraic approximation in molecular work and use finite basis set expansions The problem of describing relativistic effects in molecules is addressed in Chapter 2 by Stephen Wilson This chapter is devoted to an initial relativistic molecular structure calculation in which all electrons are explicitly considered The problem of including relativistic effects in molecular studies is also addressed in Chapters 3 and 4 In Chapter 3 Odd Groven describes the use of relativistic effective core potentials in calculations on molecular

systems involving heavy atoms This approach can lead to more tractable algorithms than the methods described in Chapter 2 and thus significantly extends the range of applications The use of semiempirical methods has yielded a wealth of information about the influence of relativity on the chemistry of the heavier elements This important area is reviewed in Chapter 4 by Pekka Pyykkö Finally in Chapter 5 Harry M *Lecture Notes in Quantum Chemistry* Björn O. Roos, 1992 **Lectures on Quantum Statistics: Quantum statistics** Nikolai Nikolaevich Bogoliubov, 1967

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