

Solid State and Molecular Theory: A Scientific Biography

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Solid State And Molecular Theory A Scientific Biography

Charlotte Froese Fischer



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Solid-state and Molecular Theory John Clarke Slater, 1975 A Wiley Interscience publication **Solid-state And Molecular Theory: Scientific Biography** J. Slater, *Solid State Insurrection* Joseph D. Martin, 2018-09-07 Solid state physics the study of the physical properties of solid matter was the most populous subfield of Cold War American physics Despite prolific contributions to consumer and medical technology such as the transistor and magnetic resonance imaging it garnered less professional prestige and public attention than nuclear and particle physics Solid State Insurrection argues that solid state physics was essential to securing the vast social political and financial capital Cold War physics enjoyed in the twentieth century Solid state s technological bent and its challenge to the pure science ideal many physicists cherished helped physics as a whole respond more readily to Cold War social political and economic pressures Its research kept physics economically and technologically relevant sustaining its cultural standing and policy influence long after the sheen of the Manhattan Project had faded With this book Joseph D Martin brings a new perspective to some of the most enduring questions about the role of physics in American history **Computational Chemistry** Errol G. Lewars, 2007-05-08 Computational chemistry has become extremely important in the last decade being widely used in academic and industrial research Yet there have been few books designed to teach the subject to nonspecialists Computational Chemistry Introduction to the Theory and Applications of Molecular and Quantum Mechanics is an invaluable tool for teaching and researchers alike The book provides an overview of the field explains the basic underlying theory at a meaningful level that is not beyond beginners and it gives numerous comparisons of different methods with one another and with experiment The following concepts are illustrated and their possibilities and limitations are given potential energy surfaces simple and extended H ckel methods ab initio AM1 and related semiempirical methods density functional theory DFT Topics are placed in a historical context adding interest to them and removing much of their apparently arbitrary aspect The large number of references to all significant topics mentioned should make this book useful not only to undergraduates but also to graduate students and academic and industrial researchers *Douglas Rayner Hartree* Charlotte Froese Fischer, 2003 This scientific biography of Douglas R Hartree not only describes important events in his life but also outlines his contributions to a number of fields He is best known for his OC self consistent fieldOCO theory for atoms a theory he later used for the much more difficult problem of predicting the behavior of a magnetron When Fock pre empted his work on exchange he began research into radio wave propagation Hartree was very interested in the process of computation When he learned of a differential analyzer for solving differential equations he first built a model using Meccano a toy for children The success of this model spread the notion of using devices to solve scientific problems Application of the analyzer led Hartree to control theory and fluid dynamics In both these areas he made significant original contributions With his extensive computing background he was selected as the first civilian to evaluate the possibility of applying the US ENIAC computer to nonmilitary problems His

research touched the lives of many scientists New Structures for Physics Bob Coecke,2011-01-15 This volume provides a series of tutorials on mathematical structures which recently have gained prominence in physics ranging from quantum foundations via quantum information to quantum gravity These include the theory of monoidal categories and corresponding graphical calculi Girard s linear logic Scott domains lambda calculus and corresponding logics for typing topos theory and more general process structures Most of these structures are very prominent in computer science the chapters here are tailored towards an audience of physicists Entanglement, Information, and the Interpretation of Quantum Mechanics

Gregg Jaeger,2009-06-12 Entanglement was initially thought by some to be an oddity restricted to the realm of thought experiments However Bell s inequality delimiting local havior and the experimental demonstration of its violation more than 25 years ago made it entirely clear that non local properties of pure quantum states are more than an intellectual curiosity Entanglement and non locality are now understood to gure prominently in the microphysical world a realm into which technology is rapidly hurtling Information theory is also increasingly recognized by physicists and philosophers as intimately related to the foun tions of mechanics The clearest indicator of this relationship is that between quantum information and entanglement To some degree a deep relationship between information and mechanics in the quantum context was already there to be seen upon the introduction by Max Born and Wolfgang Pauli of the idea that the essence of pure quantum states lies in their provision of probabilities regarding the behavior of quantum systems via what has come to be known as the Born rule The signi cance of the relationship between mechanics and information became even clearer with Leo Szilard s analysis of James Clerk Maxwell s infamous demon thought experiment Here in addition to examining both entanglement and quantum infor tion and their relationship I endeavor to critically assess the in uence of the study of these subjects on the interpretation of quantum theory **Niels Bohr and the Quantum Atom** Helge Kragh,2012-05-03 Niels Bohr and the Quantum Atom is the first book that focuses in detail on the birth and development of Bohr s atomic theory and gives a comprehensive picture of it At the same time it offers new insight into Bohr s peculiar way of thinking what Einstein once called his unique instinct and tact Contrary to most other accounts of the Bohr atom the book presents it in a broader perspective which includes the reception among other scientists and the criticism launched against it by scientists of a more conservative inclination Moreover it discusses the theory as Bohr originally conceived it namely as an ambitious theory covering the structure of atoms as well as molecules By discussing the theory in its entirety it becomes possible to understand why it developed as it did and thereby to use it as an example of the dynamics of scientific theories **Erich**

Hückel (1896-1980) Andreas Karachalios,2009-12-08 This comprehensive account of Huckel s career examines his scientific work and his key role in the emergence of quantum chemistry as an independent discipline It also covers his clash with Linus Pauling over the properties of the benzene molecule **The Routledge Companion to Philosophy of Physics**

Eleanor Knox,Alastair Wilson,2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and

authoritative guide to the state of the art in the philosophy of physics It comprises 54 self contained chapters written by leading philosophers of physics at both senior and junior levels making it the most thorough and detailed volume of its type on the market nearly every major perspective in the field is represented The Companion s 54 chapters are organized into 12 parts The first seven parts cover all of the major physical theories investigated by philosophers of physics today and the last five explore key themes that unite the study of these theories I Newtonian Mechanics II Special Relativity III General Relativity IV Non Relativistic Quantum Theory V Quantum Field Theory VI Quantum Gravity VII Statistical Mechanics and Thermodynamics VIII Explanation IX Intertheoretic Relations X Symmetries XI Metaphysics XII Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines An introductory chapter by the editors maps out the field and each part also begins with a short summary that places the individual chapters in context The volume will be indispensable to any serious student or scholar of philosophy of physics *Quantum Reprogramming* E.J. Post, 2013-06-29 Many perhaps most textbooks of quantum mechanics present a Copenhagen single system angle fewer present the subject matter as an instrument for treating ensembles but the two methods have been silently coexisting since the mid Thirties This lingering dichotomy of purpose for a major physical discipline has much shrouded further insights into the foundations of quantum theory Quantum Reprogramming resolves this long standing dichotomy by examining the mutual relation between single systems and ensembles assigning each its own tools for treating the subject at hand i e Schr dinger Dirac methods for ensembles versus period integrals for single systems A unified treatment of integer and fractional quantum Hall effects and a finite description of the electron s anomalies are mentioned as measures of justification for the chosen procedure of resolving an old time dichotomy The methods of presentation are in part elementary with repetitive references needed to delineate differences with respect to standard methods The parts on period integrals are developed with a perspective on elementary methods in physics thus leading up to some standard results of de Rham theory and algebraic topology Audience Students of physics mathematics philosophers as well as outsiders with a general interest in the conceptual development of physics will find useful reading in these pages which will stimulate further inquiry and study *The Cambridge Companion to Einstein* Michel Janssen, Christoph Lehner, 2014-05-19 These fourteen essays by leading historians and philosophers of science introduce the reader to the work of Albert Einstein Following an introduction that places Einstein s work in the context of his life and times the essays explain his main contributions to physics in terms that are accessible to a general audience including special and general relativity quantum physics statistical physics and unified field theory The closing essays explore the relation between Einstein s work and twentieth century philosophy as well as his political writings *Biographical Memoirs* National Academy of Sciences, 1982-02-01 Biographic Memoirs Volume 53 contains the biographies of deceased members of the National Academy of Sciences and bibliographies of their published works Each biographical essay was

written by a member of the Academy familiar with the professional career of the deceased For historical and bibliographical purposes these volumes are worth returning to time and again Essays on the Future Siegfried Hecker, Gian-Carlo Rota, 2013-12-01 The present work represents a unique undertaking in scientific publishing to honor Nick Metropolis who passed away in October 1999 Nick was the last survivor of the Manhattan Project that began during World War II in Los Alamos and later became the Los Alamos National Laboratory In this volume some of the leading scientists and humanists of our time have contributed essays related to their respective disciplines exploring various aspects of future developments in science technology and society Speculations on the future developments of science and society philosophy national security nuclear power pure and applied mathematics physics and biology particle physics computing information science among many others are included Contributors include H Agnew R Ashenhurst K Baclawski G Baker N Balazs J A Freed R Hamming M Hawrylycz O Judd D Kleitman M Krieger N Krikorian P Lax J D Louck T Puck M Raju R Richtmyer J Schwartz R Sokolowski E Teller M Waterman **Elementary Lectures in Statistical Mechanics** George D.J. Phillies, 2012-12-06 This volume is based on courses on Statistical Mechanics which I have taught for many years at the Worcester Polytechnic Institute My objective is to treat classical statistical mechanics and its modern applications especially interacting particles correlation functions and time dependent phenomena My development is based primarily on Gibbs's ensemble formulation Elementary Lectures in Statistical Mechanics is meant as a relatively sophisticated undergraduate or relatively straightforward graduate text for physics students It should also be suitable as a graduate text for physical chemistry students Physicists may find my treatment of algebraic manipulation to be more explicit than some other volumes In my experience some of our colleagues are perhaps a bit over enthusiastic about the ability or tendency of our students to complete gaps in the derivations I emphasize a cyclic development of major themes I could have begun with a fully detailed formal treatment of ensemble mechanics as found in Gibbs's volume and then given material realizations I instead interleave formal discussions with simple concrete models The models illustrate the formal definitions The approach here gives students a chance to identify fundamental principles and methods before getting buried in ancillary details Genius James Gleick, 2011-02-22 New York Times Bestseller This life story of the quirky physicist is a thorough and masterful portrait of one of the great minds of the century The New York Review of Books Raised in Depression era Rockaway Beach physicist Richard Feynman was irreverent eccentric and childishly enthusiastic a new kind of scientist in a field that was in its infancy His quick mastery of quantum mechanics earned him a place at Los Alamos working on the Manhattan Project under J Robert Oppenheimer where the giddy young man held his own among the nation's greatest minds There Feynman turned theory into practice culminating in the Trinity test on July 16 1945 when the Atomic Age was born He was only twenty seven And he was just getting started In this sweeping biography James Gleick captures the forceful personality of a great man integrating Feynman's work and life in a way that is accessible to laymen and fascinating for the scientists who follow in his footsteps *Electronic Structure*

Richard M. Martin, 2020-08-27 An authoritative text in condensed matter physics unifying theory and methods to present electronic structure to students and researchers *Our Changing Views of Photons* Bruce W. Shore, 2020-09-11 Advances in technology often rely on a world of photons as the basic units of light Increasingly one reads of photons as essential to enterprises in Photonics and Quantum Technology with career and investment opportunities Notions of photons have evolved from the energy packet crowds of Planck and Einstein the later field modes of Dirac the seeming conflict of wave and particle photons to the ubiquitous laser photons of today Readers who take interest in contemporary technology will benefit from learning what photons are now considered to be and how our views of photons have changed in learning about the various operational definitions that have been used for photons and their association with a variety of quantum state manipulations that include Quantum Information astronomical sources and crowds of photons the boxed fields of Cavity Quantum Electrodynamics and single photons on demand the photons of Feynman and Glauber and the photon constituents of the Standard Model of Particle Physics The narrative points to contemporary photons as causers of change to atoms as carriers of messages and as subject to controllable creation and alteration a considerable diversity of photons not just one kind *Our Changing Views of Photons* A Tutorial Memoir presents those general topics as a memoir of the author's involvement with physics and the photons of theoretical Quantum Optics written conversationally for readers with no assumed prior exposure to science It offers lay readers a glimpse of scientific discovery of how ideas become practical as a small scientific community reconsiders its assumptions and offers the theoretical ideas that are then developed revised and adopted into technology for daily use For readers who want a more detailed understanding of the theory three substantial appendices provide tutorials that assuming no prior familiarity proceed from a very elementary start to basics of discrete states and abstract vector spaces Lie groups notions of quantum theory and the Schrödinger equation for quantum state manipulation Maxwell's equations for electromagnetism with wave modes that become photons possibly exhibiting quantum entanglement and the coupling of atoms and fields to create quasiparticles The appendices can be seen as a companion to traditional textbooks on Quantum Optics *The Cold War and American Science* Stuart W. Leslie, 1993 Annotation New Scientist *Making 20th Century Science* Stephen G. Brush, 2015-04-13 A large scale historical look at the implementation of the scientific method and how scientific theories come to be accepted

Adopting the Song of Expression: An Emotional Symphony within **Solid State And Molecular Theory A Scientific Biography**

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