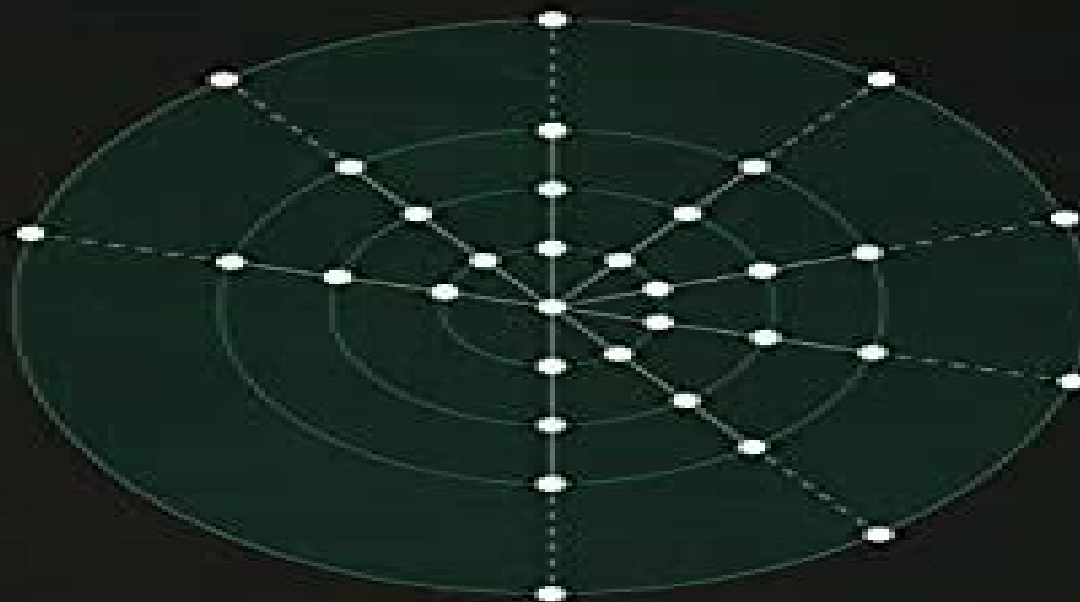


Quantum Transport in Nanostructures and Molecules

An introduction to molecular electronics

Colin John Lambert



Introduction To Quantum Electronics

Vitaliy V. Shtykov, Sergey M. Smolskiy



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stands as an indispensable resource guiding them toward a future where quantum computing transcends the realm of theory and becomes a tangible reality

The Nebular Variables John S. Glasby, 2013-10-22 The Nebular Variables focuses on the nebular variables and their characteristics Discussions are organized by type of nebular variable namely RW Aurigae stars T Orionis stars T Tauri stars and peculiar nebular objects Topics range from light variations of the stars to their spectroscopic and physical characteristics spatial distribution interaction with nebulosity and evolutionary features This volume is divided into four sections and consists of 25 chapters the first of which provides general information on nebular variables including their stellar associations and their classification into three distinct groups RW Aurigae T Orionis and T Tauri variables These three groups of nebular variables are examined in more detail in the chapters that follow in terms of their light variations spatial distribution interaction with nebulosity and spectroscopic physical and evolutionary characteristics Visual and photoelectric light curves mass loss determined spectroscopically luminosities and stellar radii are considered The book also explores the possibility that some of the nebulae associated with certain nebular variables have evolved from a protoplanetary disc of material consisting of both gas and solid matter Peculiar nebular variables such as the long period variable R Aquarii Herbig Haro objects symbiotic variables and infrared stars are analyzed as well This book is written primarily for students and teachers of astronomy

Lectures on the Theory of the Nucleus A. G. Sitenko, V. K. Tartakovskii, 2014-06-28 Provides an advanced and up to date account of the theory of nuclear structure and discusses in considerable detail both the superfluid and collective models of the nucleus in addition to earlier complementary models and theories The book also examines other important topics such as the rotational and vibrational spectra of nuclei which have not previously been treated in such depth To summarize it covers a large amount of theoretical ground in one volume and attempts to fill a serious gap in the literature Many problems are included

Introduction to the Physics of Nanoelectronics Seng Ghee Tan, Mansoor B. A. Jalil, 2012-03-28 This book provides an introduction to the physics of nanoelectronics with a focus on the theoretical aspects of nanoscale devices The book begins with an overview of the mathematics and quantum mechanics pertaining to nanoscale electronics to facilitate the understanding of subsequent chapters It goes on to encompass quantum electronics spintronics Hall effects carbon and graphene electronics and topological physics in nanoscale devices Theoretical methodology is developed using quantum mechanical and non equilibrium Green's function NEGF techniques to calculate electronic currents and elucidate their transport properties at the atomic scale The spin Hall effect is explained and its application to the emerging field of spintronics where an electron's spin as well as its charge is utilised is discussed Topological dynamics and gauge potential are introduced with the relevant mathematics and their application in nanoelectronic systems is explained Graphene one of the most promising carbon based nanostructures for nanoelectronics is also explored Begins with an overview of the mathematics and quantum mechanics pertaining to nanoscale electronics Encompasses quantum electronics spintronics Hall effects carbon and graphene

electronics and topological physics in nanoscale devices Comprehensively introduces topological dynamics and gauge potential with the relevant mathematics and extensively discusses their application in nanoelectronic systems *Optics* J. P. Mathieu, 2015-08-11 *Optics* Parts 1 and 2 covers electromagnetic optics and quantum optics The first part of the book examines the various of the important properties common to all electromagnetic radiation This part also studies electromagnetic waves electromagnetic optics of transparent isotropic and anisotropic media diffraction and two wave and multi wave interference The polarization states of light the velocity of light and the special theory of relativity are also examined in this part The second part is devoted to quantum optics specifically discussing the classical molecular theory of optical phenomena and the quantization of radiant energy and of energy in atoms This part also looks into topics such as wave mechanics atomic and molecular spectra and spectrometry This book will be beneficial to those interested in studying optics including students of physics

Statistical Mechanics R.K. Pathria, 2017-02-21 *Statistical Mechanics* discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents The book emphasizes the equilibrium states of physical systems The text first details the statistical basis of thermodynamics and then proceeds to discussing the elements of ensemble theory The next two chapters cover the canonical and grand canonical ensemble Chapter 5 deals with the formulation of quantum statistics while Chapter 6 talks about the theory of simple gases Chapters 7 and 8 examine the ideal Bose and Fermi systems In the next three chapters the book covers the statistical mechanics of interacting systems which includes the method of cluster expansions pseudopotentials and quantized fields Chapter 12 discusses the theory of phase transitions while Chapter 13 discusses fluctuations The book will be of great use to researchers and practitioners from wide array of disciplines such as physics chemistry and engineering

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A Method for Studying Model Hamiltonians N. N. Bogolyubov, 2013-10-22 *A Method for Studying Model Hamiltonians* A Minimax Principle for Problems in Statistical Physics centers on methods for solving certain problems in statistical physics which contain four fermion interaction Organized into four chapters this book begins with a presentation of the proof of the asymptotic relations for the many time correlation functions Chapter 2 details the construction of a proof of the generalized asymptotic relations for the many time correlation averages Chapter 3 explains the correlation functions for systems with four fermion negative interaction The last chapter

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