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THE BASICS OF QUANTUM PHYSICS

Understanding the Photoelectric Effect and Line Spectra



Edward Willett

Chao Zhang

The Basics of Quantum Physics Edward Willett, 2004-12-15 Explains the phenomena that classical physics could not explain but quantum physics could the photoelectric effect and line spectra **Theoretical and Quantum Mechanics** Stefan Ivanov, 2006-10-03 This book has emerged from an undergraduate course as well as a graduate one which I have taught for a number of years Recently many universities have experimented by bringing quantum theory forward in the curriculum and we follow their example This book is intended to serve as an introduction to theoretical mechanics and quantum mechanics for chemists I have included those parts of quantum mechanics which are of greatest fundamental interest and utility and have developed those parts of classical mechanics which relate to and illuminate them I try to give a comprehensive treatment wherever possible The book would acquaint chemists with the quantum structure of the basic object of chemistry the atom My intention is to bridge the gap between classical physics general and inorganic chemistry and quantum mechanics For these reasons 1 I present in one course the basics of theoretical mechanics and quantum mechanics to emphasise the continuity between them 2 I have chosen the topics of theoretical mechanics based upon two criteria a usefulness for chemical problems two body problem rotational motion of a charged particles free and in an atom interaction of a magnetic field with a magnetic dipole details of small oscillations and oscillations of molecules b the need for transition from classical to quantum mechanics basics of Lagrangian mechanics basics of Hamiltonian mechanics 3 I give detailed explanation of an application of the quantum method to simple systems one dimensional potential harmonic oscillator hydrogen atom and hydrog like atoms Topics and Solved Exercises at the Boundary of Classical and Modern Physics Samir Khene, 2022-02-09 This book provides a simple and well structured course followed by an innovative collection of exercises and solutions that will enrich a wide range of courses as part of the undergraduate physics curriculum It will also be useful for first year graduate students who are preparing for their qualifying exams The book is divided into four main themes at the boundary of classical and modern physics atomic physics matter radiation interaction blackbody radiation and thermodynamics Each chapter starts with a thorough and well illustrated review of the core material followed by plenty of original exercises that progress in difficulty replete with clear step by step solutions. This book will be invaluable for undergraduate course instructors who are looking for a source of original exercises to enhance their classes while students that want to hone their skills will encounter challenging and stimulating problems The Energy System Travis Bradford, 2018-09-11 A comprehensive textbook that integrates tools from technology economics markets and policy to approach energy issues using a dynamic systems and capital centric perspective. The global energy system is the vital foundation of modern human industrial society Traditionally studied through separate disciplines of engineering economics environment or public policy this system can be fully understood only by using an approach that integrates these tools This textbook is the first to take a dynamic systems perspective on understanding energy systems tracking energy from primary

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