



## A Concise Guide to Quantum Chemistry

By LIN MENG HAI

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 277 Publisher: Chemical Industry Press Pub. Date :2005-8-1. This book comprehensively covers the foundation of quantum mechanics. the simple application of. atomic structure. molecular structure. the basis of group theory. group theory. applications. molecular spectroscopy. electronic related and other content. Contents: Chapter 1. the basis of quantum mechanics. quantum mechanics 1.1 The establishment of three important experimental 1.1.2 1.1.1 de Broglie matter waves 1.1.3 Schrödinger equation and Heisenberg matrix mechanics 1.1.4 uncertainty relationship 1.2 1.2.1 The basic assumption of quantum mechanics assumptions - state wave function and probability assumptions 1.2.2 - mechanical volume and linear self-adjoint (Hermite) operator 1.2.3 Suppose - Schrödinger equation 1.2.4 Assuming - the superposition principle 1.2.5 Suppose - Pauli Exclusion Principle 1.3 the basic concepts of quantum mechanics identical particles 1.3.2 1.3.1 1.3.3 Dirac parity symbols 1.3.4 Schrödinger representation Problems with the Heisenberg representation References 2.1 Chapter 2. a simple application of free particle in the potential case of one-dimensional potential box 2.1.1 2.1.2 2.1.3 Application of three-dimensional potential box 2.2 harmonic oscillator 2.2.1 a multi-dimensional harmonic oscillator 2.2.2...



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