Ideas of Quantum Chemistry. Edition No. 2

Description:  
Ideas of Quantum Chemistry shows how quantum mechanics is applied to chemistry to give it a theoretical foundation. From the Schroedinger equation to electronic and nuclear motion to intermolecular interactions, this book covers the primary quantum underpinnings of chemical systems. The structure of the book (a TREE-form) emphasizes the logical relationships among various topics, facts and methods. It shows the reader which parts of the text are needed for understanding specific aspects of the subject matter. Interspersed throughout the text are short biographies of key scientists and their contributions to the development of the field.

Ideas of Quantum Chemistry has both textbook and reference work aspects. Like a textbook, the material is organized into digestible sections with each chapter following the same structure. It answers frequently asked questions and highlights the most important conclusions and the essential mathematical formulae in the text. In its reference aspects, it has a broader range than traditional quantum chemistry books and reviews virtually all of the pertinent literature. It is useful both for beginners as well as specialists in advanced topics of quantum chemistry. An appendix on the Internet supplements this book.

- Presents the widest range of quantum chemical problems covered in one book
- Unique structure allows material to be tailored to the specific needs of the reader
- Informal language facilitates the understanding of difficult topics

Contents:
1. The Magic of Quantum Mechanics
2. Schroedinger Equation
3. Beyond the Schroedinger Equation
4. Exact Solutions
5. Two Fundamental Approximate Methods
6. Separation of Electronic and Nuclear Motions
7. Motion of the Nuclei
8. Electronic Motion in the Mean Field: Atoms and Molecules
9. Electronic Motion in the Mean Field: Periodic Systems
10. Correlation of the Electronic Motions
11. Electronic Motion: Density Functional Theory
12. Molecule in Electric or Magnetic Fields
13. Intermolecular Interactions
14. Intermolecular Motion of Nuclei And Electrons: Chemical Reactions
15. Information Processing
Appendices

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