<<   >>

Page 1

<<   >>

13   ISBN   9787510029547

10   ISBN   7510029546

          2011-1

          Iran N. Levine

          751

                    PDF

          http://www.tushu007.com

a solutions manual for the problems in the book is available.

the expanding role of quantum chemistry makes it highly desirable for students in all areas of chemistry to understand modern methods of electronic structure calcula-tion, and this book has been written with this goal in mind.

i have tried to make explanations clear and complete, without glossing over diffi-cult or subtle points. derivations are given with enough detail to make them easy to fol-low, and i avoid resorting to the frustrating phrase "it can be shown that" wherever possible. the aim is to give students a solid understanding of the physical and mathe-matical aspects of quantum mechanics and molecular electronic structure. the book is designed to be useful to students in all branches of chemistry, not just future quantum chemists. however, the presentation is such that those who do go on in quantum chem-istry will have a good foundation and will not be hampered by misconceptions.

an obstacle faced by many chemistry students in learning quantum mechanics is their unfamiliarity with much of the required mathematics. in this text i have included detailed treatments of operators, differential equations, simultaneous linear equations,and other needed topics. rather than putting all the mathematics in an introductory chapter or a series of appendices, i have integrated the mathematics with the physics and chemistry. immediate application of the mathematics to solving a quantum-mechanical problem will make the mathematics more meaningful to students than would separate study of the mathematics. i have also kept in mind the limited physics background of many chemistry students by reviewing topics in physics.

（ 6 ）　　18　　　　　750

PDF

:http://www.tushu007.com