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(PDF) Molecular Quantum Mechanics 4th ed ATKINS-FRIEDMAN ...
(Chem physics) atkins molecular quantum mechanics (2005) 4ed 1. MOLECULAR QUANTUM MECHANICS,FOURTH EDITION Peter Atkins Ronald FriedmanOXFORD UNIVERSITY PRESS 2. MOLECULAR QUANTUM MECHANICS 3. This page intentionally left blank 4.

Solutions to selected exercises and problems

With the clarity of exposition and extensive learning features that have established the book as a leading text in the field, Molecular Quantum Mechanics takes us from the foundations of quantum mechanics, through quantum models of atomic, molecular, and electronic structure, and on to discussions of spectroscopy, and the electronic and magnetic properties of molecules. Lucid explanations and illuminating artworks help to visualise the many abstract concepts upon which the subject is built.

Solutions Manual for Molecular Quantum Mechanics by ...

This one, Molecular Quantum Mechanics, has an excellent selection of topics, and is mostly a book that will teach you about spectroscopy techniques for the study of molecules (NMR, ESR, vibrational spectroscopy, rotational spectroscopy, etc). It does a fairly good job at teaching things with minimal assumed background.

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Quantum mechanics embraces the behavior of all known forms of matter, including the atoms and molecules from which we, and all living organisms, are composed. Molecular Quantum Mechanics leads us through this absorbing yet challenging subject, exploring the fundamental physical principles that explain how all matter behaves.

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Abstract: This text is a thorough revision of the second edition, which appeared in 1983. The new edition continues to present extensive treatments of quantum principles and methods, atomic and molecular structure, and rotational, vibrational, and electronic ...

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"Molecular Quantum Mechanics" focuses on aspects of quantum mechanics in chemistry, especially in applications on spectroscopy (infrared and Raman) which roots in the ideas of rotation, vibration, anharmonicity, and centrifugal distortion. It also discusses advanced topics like nonlinear spectroscopy and computational chemistry.

Molecular Quantum Mechanics by Peter Atkins

Chapter 3 of "Molecular Quantum Mechanics" by Atkins and Friedman, 5th edition. ... curve), 2s (orange curve), and 3s (green curve) quantum state. The first few solutions are given in Table 1 and plotted in Figure 1. Note how rapidly the maximum of the probability density moves away from the nucleus when the atom is excited. ...

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Molecular Quantum Mechanics leads us through this absorbing yet challenging subject, unravelling those fundamental physical principles which explain how all matter behaves. With the clarity of exposition and rich pe Quantum mechanics embraces the behaviour of all known forms of matter, including the atoms and molecules from which we, and all living organisms, are composed.