



Atoms, Molecules and Photons: An Introduction to Atomic-, Molecular- and Quantum Physics (Graduate Texts in Physics)

By Wolfgang Demtröder

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This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed during the last two centuries by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro-particles. It illustrates the wave model of particles by many examples and shows the limits of classical description. The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly. Many examples and problems with solutions should induce the reader to an intense active cooperation.

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- Sales Rank: #1967628 in Books
- Published on: 2011-01-19
- Original language: English
- Number of items: 1
- Dimensions: 11.02" h x 1.31" w x 8.50" l, 3.30 pounds
- Binding: Hardcover
- 589 pages



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Review

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From the Back Cover

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