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Molecular Physics

By Wolfgang Demtröder

Wiley VCH Verlag Gmb Sep 2005, 2005. Taschenbuch. Condition: Neu. Neuware - Dieses fortgeschrittene Lehrbuch der Molekülphysik wendet sich an Studenten und Doktoranden aus der Chemie und der Physik; der Autor setzt Grundkenntnisse der Atomphysik und Quantenmechanik voraus. Erklärt werden die Eigenschaften (und, daraus abgeleitet, die Spektren) zwei- und mehratomiger Moleküle - im ersten Teil des Textes vorwiegend theoretisch, im zweiten Teil anwendungsspezifisch unter Berücksichtigung der in der Physik, Chemie, Biologie und Materialwissenschaft eingesetzten Verfahren, insbesondere der Laser-, Fourier-, NMR- und ESR-Spektroskopie. The richly illustrated book comprehensively explains the important principles of diatomic and polyatomic molecules and their spectra in two separate, distinct parts. The first part concentrates on the theoretical aspects of molecular physics, such as the vibration, rotation, electronic states, potential curves, and spectra of molecules. The different methods of approximation for the calculation of electronic wave functions and their energy are also covered. The introduction of basics terms used in group theory and their meaning in molecular physics enables an elegant description of polyatomic molecules and their symmetries. Molecular spectra and the dynamic processes involved in their excited states are given its own chapter. The theoretical part then concludes with a discussion of the field of Van...



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