
Atomic and Molecular Beam Methods

VOLUME 1

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researchers in the field but also to bring the flavor of current molecular beam research to advanced undergraduates and graduate students and to enable them to gain a solid background in the field and its technique

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Atoms, Molecules and Photons Wolfgang Demtröder, 2010-11-10 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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