



Cold Trapped Molecular Ions

By Bernhard, Roth

Book Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Production, Manipulation, and Spectroscopy | One of the current themes in quantum physics is the creation of cold (1 K) molecules to study molecule-molecule, molecule-atom, and molecule-radiation interactions under these novel lowtemperature conditions. This book highlights the field of cold trapped molecular ions. In particular, the development of a novel, universal cooling method for charged particles, sympathetic cooling using laser-cooled atoms, together with the experimental and computational techniques required are extensively reviewed. The book also reviews first spectacular applications of the cold ion ensembles produced: the study of the properties of cold non-neutral plasmas, the study of ionneutral chemical reactions and of photodissociation processes, and high-resolution rotational overtone spectroscopy of cold hydrogen molecular ions with unprecedented spectral resolution. The large potential of this field of research and its possible impact to other fields of physics, chemistry, and biology are highlighted. The book summarizes the main lines of research in cold trapped molecular ion physics, thus, making it useful as an introduction for advanced students and experienced researchers. One of the current themes in quantum physics is the creation of cold (1 K) molecules to study molecule-molecule, molecule-atom, and molecule-radiation interactions under thesenovel...



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Molly on the Shore, BFMS 1 Study score

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