



A Method of Calculating Cross Sections for Molecular Collisions: October, 1954 (Classic Reprint)

By Ernest Bauer

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Method of Calculating Cross Sections for Molecular Collisions: October, 1954 The aim of the work is to calculate the cross section for the excitation of molecular vibrations by collisions between a molecule and another molecule or an atom, at energies so low that the translational and vibrational energies are of the same order of magnitude. Processes of this kind are basic to many gas phase chemical reactions and also to phenomena such as the vibrational relaxation that has been suggested as a mechanism for the large absorption of high-frequency sound in gases. Numerous quantum mechanical calculations of this kind of process have been made and the correct order of magnitude for the cross section has been obtained. The problem of measuring cross sections for this kind of process experimentally is a very difficult one because the energy of translation is low, so that no detailed numerical data such as angular distributions can be expected. From a theoretical standpoint there are serious difficulties connected with the form of the intermolecular potential, and also with the...



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