

Molecular Collision Theory M S Child

E.E. Nikitin, S.Y. Umanskii

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Atom - Molecule Collision Theory Richard Barry Bernstein, 2013-11-11 The broad field of molecular collisions is one of considerable current interest one in which there is a great deal of research activity both experi mental and theoretical This is probably because elastic inelastic and reactive intermolecular collisions are of central importance in many of the fundamental processes of chemistry and physics One small area of this field namely atom molecule collisions is now beginning to be understood from first principles Although the more general subject of the collisions of polyatomic molecules is of great im portance and intrinsic interest it is still too complex from the viewpoint of theoretical understanding However for atoms and simple molecules the essential theory is well developed and computational methods are sufficiently advanced that calculations can now be favorably compared with experimental results This coming together of the subject and incidentally of physicists and chemists though still in an early stage signals that the time is ripe for an appraisal and review of the theoretical basis of atom molecule collisions It is especially important for the experimentalist in the field to have a working knowledge of the theory and computational methods required to describe the experimentally observable behavior of the system By now many of the alternative theoretical approaches and computational procedures have been tested and intercompared More or Iess optimal methods for dealing with each aspect are emerging In many cases working equations even schematic algorithms have been developed with assumptions and caveats delineated **Photodissociation Dynamics** Reinhard Schinke, 1995-05-11 Photodissociation induced by the absorption of single photons permits the detailed study of molecular dynamics such as the breaking of bonds internal energy transfer and radiationless transitions. The availability of powerful lasers operating over a wide frequency range has stimulated rapid development of new experimental techniques which make it possible to analyse photodissociation processes in unprecedented detail This text elucidates the achievements in calculating photodissociation cross sections and fragment state distributions from first principles starting from multi dimensional potential energy surfaces and the Schr dinger equation of nuclear motion Following an extended introduction in which the various types of observables are outlined the book summarises the basic theoretical tools namely the time independent and the time dependent quantum mechanical approaches as well as the classical picture of photodissociation The discussions of absorption spectra diffuse vibrational structures the vibrational and rotational state distributions of the photofragments form the core of the book More specific topics such as the dissociation of vibrationally excited molecules emission during dissociation or nonadiabatic effects are also discussed It will be of interest to graduate students and senior scientists working in molecular physics spectroscopy molecular collisions and molecular kinetics Molecular Collision Theory M. S. Child, 1974 Theory of Slow Atomic Collisions E.E. Nikitin, S.Y. Umanskii, 2012-12-06 The theory of atom molecule collisions is one of the basic fields in chemi cal physics Its most challenging part the dynamics of chemical reactions is as yet unresolved but is developing very quickly It is here a great help to have an analysis of those parts of collision theory

which are already complete a good example being the theory of atomic collisions in process es specific to chemical physics It has long been observed that many notions of this theory can also be applied successfully to reactive and unreactive molecular collisions More over atomic collisions often represent a touchstone in testing approaches proposed for the solution of more complicated problems Research on the theory of slow atomic collisions carried out at the Moscow Institute of Chemical Physics has been based on just these ideas A general viewpoint concerning the setting up and representation of the theory came out of these studies and appeared to be useful in studying complicated systems as well It underlies the representation of the theory of slow atomic colli sions in this book Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake, 2007-02-05 This Springer Handbook comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field Its 90 chapters written by about 120 authors all leaders in their repsective disciplines together with a guide to the primary research literature It has been carefully edited to ensure a uniform coverage and style with extensive cross references It is intended to be both a source of information and inspiration for graduate students and other researchers new to the field Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook Modern Methods in Kinetics C.H. Bamford, R.G. Compton, C.F.H. Tippert, 1983-01-01 Modern Methods in Kinetics Molecular Structure and Dynamics Mekhon Vaitsman le-mada',1980 Atomic, Molecular, and Optical Physics Handbook Gordon W.F. Drake, 1996-02-13 This text provides a summary of the key ideas techniques and research results in the field of atomic molecular and optical physics It is intended to be of interest to all physicians especially in condensed matter and chemical physics and engineers as Introduction to the Theory of Atomic and Molecular Collisions John N. Murrell, S. D. Bosanac, 1989-09-04 This introduction to the scattering theory of low energy 0 1 to 1 0 eV atomic and molecular collisions provides a strong theoretical background maintaining a balance between classical and quantum approaches Addresses the four main branches of the subject elastic inelastic and reactive scattering and electron excitation all supported by computational techniques Photodissociation Dynamics of ICN Maureen Ann O'Halloran, 1986 Mass Spectrometry ,1984 **Physical Review**, 1995-06 Publishes papers that report results of research in statistical physics plasmas fluids and related interdisciplinary topics There are sections on 1 methods of statistical physics 2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of

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