

# Semiclassical Methods in Molecular Scattering and Spectroscopy

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M. S. CHILD

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# Semiclabical Methods In Molecular Scattering And Spectroscopy

**Raffaella Di Napoli**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

## **Semiclabical Methods In Molecular Scattering And Spectroscopy:**

**Semiclassical Methods in Molecular Scattering and Spectroscopy** M S Child,1980-02-29      **Semiclassical Methods in Molecular Scattering and Spectroscopy** M.S. Child,2012-12-06 Proceedings of the NATO Advanced Study Institute Cambridge England September 1979      *Semiclassical methods in molecular scattering and spectroscopy* Nato Advanced Study Institute,1980      **Semiclassical Methods in Molecular Scattering and Spectroscopy** M. S. Child,1980

**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 Schrödinger 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      *Airy Functions And Applications To Physics (2nd Edition)* Olivier

Vallee,Manuel Soares,2010-06-17 Addressed mainly to physicist and chemical physicist this textbook is the result of a broad compilation of current knowledge on analytical properties of Airy functions In particular the calculus implying the Airy functions is developed with care In the latter chapters examples are given to succinctly illustrate the use of Airy functions in classical and quantum physics The physicist for instance in fluid mechanics can find what he is looking for in the references for works of molecular physics or in physics of surfaces and vice versa The knowledge on Airy functions is frequently reviewed The reason may be found in the need to express a physical phenomenon in terms of an effective and comprehensive analytical form for the whole scientific community a      **Asymptotic and Computational Analysis** R. Wong,2020-12-17

Papers presented at the International Symposium on Asymptotic and Computational Analysis held June 1989 Winnipeg Man sponsored by the Dept of Applied Mathematics University of Manitoba and the Canadian Applied Mathematics Society

**AFOSR Chemical & Atmospheric Sciences Program Review** United States. Air Force. Directorate of Chemical and Atmospheric Sciences,      **Physical Problems Solved by the Phase-Integral Method** Nanny Fröman,Per Olof

Fröman,2002-06-13 This book provides a thorough introduction to one of the most efficient approximation methods for the

analysis and solution of problems in theoretical physics and applied mathematics It is written with practical needs in mind and contains a discussion of 50 problems with solutions of varying degrees of difficulty The problems are taken from quantum mechanics but the method has important applications in any field of science involving second order ordinary differential equations The power of the asymptotic solution of second order differential equations is demonstrated and in each case the authors clearly indicate which concepts and results of the general theory are needed to solve a particular problem This book will be ideal as a manual for users of the phase integral method as well as a valuable reference text for experienced research workers and graduate students

**Spectroscopic Properties of Inorganic and Organometallic Compounds** D M Adams, E A V Ebsworth, 2007-10-31 Spectroscopic Properties of Inorganic and Organometallic Compounds provides a unique source of information on an important area of chemistry Divided into sections mainly according to the particular spectroscopic technique used coverage in each volume includes NMR with reference to stereochemistry dynamic systems paramagnetic complexes solid state NMR and Groups 13 18 nuclear quadrupole resonance spectroscopy vibrational spectroscopy of main group and transition element compounds and coordinated ligands and electron diffraction Reflecting the growing volume of published work in this field researchers will find this Specialist Periodical Report an invaluable source of information on current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading experts in their specialist fields this series is designed to help the chemistry community keep current with the latest developments in their field Each volume in the series is published either annually or biennially and is a superb reference point for researchers [www.rsc.org/spr](http://www.rsc.org/spr)

**The Theory of Chemical Reaction Dynamics** D.C. Clary, 2012-12-06 The calculation of cross sections and rate constants for chemical reactions in the gas phase has long been a major problem in theoretical chemistry The need for reliable and applicable theories in this field is evident when one considers the significant recent advances that have been made in developing experimental techniques such as lasers and molecular beams to probe the microscopic details of chemical reactions For example it is now becoming possible to measure cross sections for chemical reactions state selected in the vibrational rotational states of both reactants and products Furthermore in areas such as atmospheric combustion and interstellar chemistry there is an urgent need for reliable reaction rate constant data over a range of temperatures and this information is often difficult to obtain in experiments The classical trajectory method can be applied routinely to simple reactions but this approach neglects important quantum mechanical effects such as tunnelling and resonances For all these reasons the quantum theory of reactive scattering is an area that has received considerable attention recently This book describes the proceedings of a NATO Advanced Research Workshop held at CECAM Orsay France in June 1985 The Workshop concentrated on a critical examination and discussion of the recent developments in the theory of chemical reaction dynamics with particular emphasis on quantum theories Several papers focus on exact theories for reactions

**Phase-Integral Method** Nanny Fröman, Per O. Fröman, 1998-02-18 The result of two decades spent developing and refining the phase integral method to a high level of precision the authors have applied this method to problems in various fields of theoretical physics The problems treated are of a mathematical nature but have important physical applications This book will thus be of great use to research workers in various branches of theoretical physics where the problems can be reduced to one dimensional second order differential equations of the Schrödinger type for which phase integral solutions are required Includes contributions from notable scientists who have already made use of the authors technique 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 chemical 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 processes 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 collisions in this book **INIS Atomindex**, 1982 *New Horizons of Quantum Chemistry* P.-O. Löwdin, A. Pullman, 2012-12-06 The Fourth International Congress in Quantum Chemistry under the auspices of the International Academy of Molecular Quantum Science in Menton France was arranged at Uppsala University Uppsala Sweden during the period June 14-19 1982 in close collaboration with the University of Florida The previous congresses were held in Menton 1973 New Orleans 1976 and Kyoto 1979 and the 1985 congress is tentatively planned to be held in the province of Quebec Canada The Congress consisted of six symposia in various areas of quantum chemistry solid state theory and quantum biology The meeting was attended by about 450 scientists from 45 different nations and a total of more than 300 scientific papers were presented Even the poster contributions were given some plenary time These proceedings contain the text of the plenary lectures as well as the chairmen's introductions whereas the contributed papers will be published in the *International Journal of Quantum Chemistry* John Wiley Sons New York in the regular January April 1983 issues *The Wave-Particle Dualism* S. Diner, D. Fargue, G. Lochak, F. Selleri, 2012-12-06 The Louis de Broglie Foundation which was created in 1973 for the fiftieth anniversary of the discovery of wave mechanics and the University of Perugia have offered an international symposium to Louis de Broglie on his 90th birthday This publication represents the Proceedings of this conference which was held in Perugia on April 22-30 1982 It was an opportunity for the developing of physical conceptions of all origins which may serve to throw light on the mysterious power of the quantum theory Quantum Mechanics has reached

matu rity in its formalism and although no experiment yet has come to challenge its predictions one may question the limits of its va lidity In fact the true meaning of this vision of the microphysi cal world remains the subject of endless debating at the heart of which lies the foundational myth of wave particle dualism Albert Einstein and Louis de Broglie are the two discoverers of this fundamental duality which they always considered as a deep physical reality rather than a phenomenological artifice During the conference a survey has been given of the essential recent experimental results in corpuscular and quantum optics and the most up to date theoretical aspects of the specificity of mi crophysical phenomena various interpretations of quantum mecha nics al ternati ve theories and hidden parameters theories pro babilistic and axiomatic questions and tentative crucial experi ments The conference took place in the magnificent atmosphere of the villa Colombella lent to us by the Universita per Stranieri di Perugia

**Femtochemistry** Ahmed H. Zewail, 1994 These two volumes on Femtochemistry present a timely contribution to a field central to the understanding of the dynamics of the chemical bond This century has witnessed great strides in time and space resolutions down to the atomic scale providing chemists biologists and physicists with unprecedented opportunities for seeing microscopic structures and dynamics Femtochemistry is concerned with the time resolution of the most elementary motions of atoms during chemical change bond breaking and bond making on the femtosecond  $10^{-15}$  second time scale This atomic scale of time resolution has now reached the ultimate for the chemical bond and as Lord George Porter puts it chemists are near the end of the race against time These two volumes cover the general concepts techniques and applications of femtochemistry Professor Ahmed Zewail who has made the pioneering contributions in this field has from over 250 publications selected the articles for this anthology These volumes begin with a commentary and a historical chronology of the milestones He then presents a broad perspective of the current state of knowledge in femtochemistry by researchers around the world and discusses possible new directions In the words of a colleague it is a must on the reading list for all of my students all readers will find this to be an informative and valuable overview The introductory articles in Volume I provide reviews for both the non experts as well as for experts in the field This is followed by papers on the basic concepts For applications elementary reactions are studied first and then complex reactions Volume I is complete with studies of solvation dynamics non reactive systems ultrafast electron diffraction and the control of chemical reactions Volume II continues with reaction rates the concept of elementary intramolecular vibrational energy redistribution IVR and the phenomena of rotational coherence which has become a powerful tool for the determination of molecular structure via time resolution The second volume ends with an extensive list of references according to topics based on work by Professor Zewail and his group at Caltech These collected works by Professor Zewail will certainly be indispensable to both experts and beginners in the field The author is known for his clarity and for his creative and systematic contributions These volumes will be of interest and should prove useful to chemists biologists and physicists As noted by Professor J Manz Berlin and Professor A W Castleman Jr Penn State femtochemistry is yielding

exciting new discoveries from analysis to control of chemical reactions with applications in many domains of chemistry and related fields e g physical organic and inorganic chemistry surface science molecular biology etc      **Photodissociation and Photoionisation** K. P. Lawley, 2009-09-08 Experts in the field cover a wide range of theoretical and practical aspects of photodissociation and photoionization This complete survey covers everything from laser isotope separation at the applied end to current theories of the quantum mechanics of photodissociation      **Swarms of Ions and Electrons in Gases** W. Lindinger, T.D. Märk, F. Howorka, 2012-12-06 Our understanding of elementary processes in plasmas has been increasing dramatically over the last few years The development of various swarm techniques such as the temperature variable selected ion flow tube or the selected ion flow drift tube has provided the prerequisite for detailed investigations into ion molecule reactions both in binary and three body collisions and the mechanisms of many reactions are now understood quite satisfactorily This information could not have been obtained without a detailed knowledge of the transport phenomena involved Some of these such as the internal energy distribution of drifting ions have only very recently been tackled both theoretically and experimentally a consistent model is now being developed As the interactions between the various branches of swarm research have become more and more intense the most obvious thing to do was putting together a review on the present state of this subject which is the aim of this book      Potential Energy Surfaces Alexander F. Sax, 2012-12-06 Potential Energy Surfaces is a collection of lectures given at the 1996 Mariapfarr Workshop in Theoretical Chemistry organized by Alexander F Sax The Mariapfarr Workshops aim is to discuss in depth topics in Theoretical Chemistry The target group of these workshops is graduate students and postdocs

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