

Springer Series in

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E. S. Medvedev V. I. Osherov

# **Radiationless Transitions in Polyatomic Molecules**



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**Springer Series In Chemical Physics Vol 57**

**Eric J. Heller**



## **Radiationless Transitions In Polyatomic Molecules Springer Series In Chemical Physics Vol 57:**

**Introduction To Nonadiabatic Dynamics** Hiroki Nakamura, 2019-09-26 Nonadiabatic transition is a highly multi disciplinary concept and phenomenon constituting a fundamental mechanism of state and phase changes in various dynamical processes of physics chemistry and biology This book is intended to be readable to a broad audience so that they can deepen their understanding of the basic concepts of both time independent and time dependent nonadiabatic transitions Quantum mechanically intriguing phenomena such as complete reflection and nonadiabatic tunneling are emphasized The Zhu Nakamura theory that can deal with non negligible classically forbidden transitions is explained Furthermore by controlling nonadiabatic transitions induced by an external field such as laser designing chemical reaction dynamics as we desire is shown to be theoretically possible *Nonadiabatic Transition: Concepts, Basic Theories And Applications (2nd Edition)*

Hiroki Nakamura, 2012-01-13 Nonadiabatic transition is a highly multidisciplinary concept and phenomenon constituting a fundamental mechanism of state and phase changes in various dynamical processes of physics chemistry and biology such as molecular dynamics energy relaxation chemical reaction and electron and proton transfer Control of molecular processes by laser fields is also an example of time dependent nonadiabatic transition In this new edition the original chapters are updated to facilitate enhanced understanding of the concept and applications Three new chapters comprehension of nonadiabatic chemical dynamics control of chemical dynamics and manifestation of molecular functions are also added **Advances in Chemical Physics, Volume 138** Stuart A. Rice, 2008-04-30 This series provides the

chemical physics field with a forum for critical authoritative evaluations of advances in every area of the discipline This stand alone special topics volume reports recent advances in electron transfer research with significant up to date chapters by internationally recognized researchers *Radiationless Transitions in Polyatomic Molecules* Emil' Samuilovich

Medvedev, Vladimir Iosifovich Osherov, 1995 Radiationless Transitions in Polyatomic Molecules treats the dynamics of electronically excited states and the transition probabilities of electronic relaxation processes Based on a simple and transparent yet rigorous presentation of the basic physical concepts the mathematical methods required are developed in detail from first principles and new light shed on the treatment of traditional issues **Acta Physica Polonica**, 1999

**International Books in Print, 1995** Barbara Hopkinson, [Anonymus AC01401231], 1995 **Advances in Chemical**

**Physics, Volume 100** Ilya Prigogine, Stuart A. Rice, 2009-09-09 The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics **American Book Publishing Record**, 1995 *The Semiclassical Way to Dynamics and*

*Spectroscopy* Eric J. Heller, 2018-06-05 A graduate level text that examines the semiclassical approach to quantum mechanics

Physical systems have been traditionally described in terms of either classical or quantum mechanics. But in recent years semiclassical methods have developed rapidly providing deep physical insight and computational tools for quantum dynamics and spectroscopy. In this book Eric Heller introduces and develops this subject demonstrating its power with many examples. In the first half of the book Heller covers relevant aspects of classical mechanics building from them the semiclassical way through the semiclassical limit of the Feynman path integral. The second half of the book applies this approach to various kinds of spectroscopy such as molecular spectroscopy and electron imaging and quantum dynamical systems with an emphasis on tunneling. Adopting a distinctly time dependent viewpoint Heller argues for semiclassical theories from experimental and theoretical vantage points valuable to research in physics and chemistry. Featuring more than two hundred figures the book provides a geometric phase space and coordinate space pathway to greater understanding. Filled with practical examples and applications *The Semiclassical Way to Dynamics and Spectroscopy* is a comprehensive presentation of the tools necessary to successfully delve into this unique area of quantum mechanics. A comprehensive approach for using classical mechanics to do quantum mechanics. More than two hundred figures to assist intuition. Emphasis on semiclassical Green function and wave packet perspective as well as tunneling and spectroscopy. Chapters include quantum mechanics of classically chaotic systems, quantum scarring and other modern dynamical topics. **Illustrated Official Journal (patents)** Great Britain. Patent Office, 1995. **Dynamics of Molecular Collisions** W. Miller, 2012-12-06. Activity in any theoretical area is usually stimulated by new experimental techniques and the resulting opportunity of measuring phenomena that were previously inaccessible. Such has been the case in the area under consideration here beginning about fifteen years ago when the possibility of studying chemical reactions in crossed molecular beams captured the imagination of physical chemists for one could imagine investigating chemical kinetics at the same level of molecular detail that had previously been possible only in spectroscopic investigations of molecular structure. This created an interest among chemists in scattering theory, the molecular level description of a bimolecular collision process. Many other new and also powerful experimental techniques have evolved to supplement the molecular beam method and the resulting wealth of new information about chemical dynamics has generated the present intense activity in molecular collision theory. During the early years when chemists were first becoming acquainted with scattering theory it was mainly a matter of reading the physics literature because scattering experiments have long been the staple of that field. It was natural to apply the approximations and models that had been developed for nuclear and elementary particle physics and although some of them were useful in describing molecular collision phenomena many were not. The most relevant treatise then available to students was Mott and Massey's classic *The Theory of Atomic Collisions* but as the title implies it dealt only sparingly with the special features that arise when at least one of the collision partners is a molecule. *Photoprocesses in Transition Metal Complexes, Biosystems and Other Molecules. Experiment and Theory* Elise Kochanski, 1992. The main emphasis in this book is on the photoprocesses of

transition metal complexes and biosystems but not to the exclusion of other photoprocesses The book will thus be useful to a wide range of researchers Beginning with a basic introduction to photophysics quantum chemistry and the spectroscopic techniques used for the study of organometallic intermediates and biliproteins the book goes on to discuss the photochemistry of organometallics special attention being paid to the photochemistry of metalbonded carbonyls and polynuclear systems in supramolecular photochemistry After moving to a discussion of large systems the book then develops some aspects of the photophysics of biosystems before closing with a discussion of artificial photosynthetic model systems

**Radiationless Transitions in Polyatomic Molecules** Emile S. Medvedev, Vladimir I. Osherov, 1995 Radiationless Transitions in Polyatomic Molecules treats the dynamics of electronically excited states and the transition probabilities of electronic relaxation processes Based on a simple and transparent yet rigorous presentation of the basic physical concepts the mathematical methods required are developed in detail from first principles and new light shed on the treatment of traditional issues **Whitaker's Books in Print**, 1998 *Ultrafast Spectroscopy of Prototypes for Electronically Nonadiabatic Dynamics in Solution Chemistry* Carlos Silva, 1998 *Physics, Uspekhi*, 1996 *Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen*, 1995 *Verzeichnis lieferbarer Bücher*, 2002 **Soviet Physics, Uspekhi**, 1989 *Radiationless Transitions in Polyatomic Molecules* Emile S. Medvedev, Vladimir I. Osherov, 1995 Radiationless transitions comprise an important class of physical phenomena occurring in the excited states of molecules They affect the lifetimes of the excited states and govern primary photochemical and photophysical processes Much effort has been devoted to the understanding of radiationless transitions Still owing to recent advances the field continues to attract attention The demand for a book on the theory of these processes naturally arises in attempting to comprehend a large body of literature as the famous review article by K F Freed and the book by R Englman do not encompass some issues of current interest Our intent is to highlight the underlying physical principles and methods in such a way that the book both in its content and its presentation is instructive for a wide audience The basic ideas are treated in simple mathematical terms intelligible to experimentalists and to readers unfamiliar with the field Complicated theoretical methods are always expounded from first principles so that a knowledge of quantum mechanics and mathematics at the graduate student level will enable the reader to easily follow the derivations Experts will find efficient methods of calculating the transition rates as well as new applications of quasiclassical methods and fresh treatments of standard problems Details of measurements are not discussed and experimental data are only invoked to illustrate the theory

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