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V.L. Broude E.I. Rashba
E.F. Sheka

Spectroscopy of Molecular Excitons



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Niyasi Serdar Sariciftci



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Spectroscopy of Molecular Excitons Vladimir L. Broude, Emmanuel I. Rashba, Elena F. Sheka, 2012-04-09 Low temperature spectroscopy of organic molecular crystals came into being in the late 20s just when quantum physics of solids as a whole began to develop vigorously Already in the early works two experimental facts of prime importance were discovered the presence of a multitude of narrow bands in the low temperature spectrum of a crystal and a close relationship between the spectrum of the crystal and that of the constituent molecules These findings immediately preceded the celebrated paper of Frenkel in which he went beyond the framework of Bloch's scheme and advanced the exciton concept Subsequent investigations showed that the most interesting features of the spectra of molecular crystals are associated with excitons and then the spectroscopy of molecular excitons began to form gradually on the basis of the spectroscopy of organic crystals The molecular exciton became synonymous to the Frenkel exciton in a molecular crystal In view of the difficulties involved in the analysis of rich spectra containing many tens of bands the spectroscopy of molecular crystals had long been connected most closely with the spectroscopy of molecules It had developed independently to a large extent from the other branches of solid state physics This was also emphasized by the difference in experimental techniques the specific properties of the objects etc As a result there was some lag in ideas and concepts

Spectroscopy of Molecular Excitons Vladimir L'vovich Broude, Èmmanuil Iosifovich Rashba, Elena Fedorovna Sheka, 1985

Dynamics of Molecular Excitons Seogjoo J. Jang, 2020-04-29 Dynamics of Molecular Excitons provides a comprehensive but concise description of major theories on the dynamics of molecular excitons intended to serve as a self contained resource on the topic Designed to help those new to this area gain proficiency in this field experts will also find the

book useful in developing a deeper understanding of the subject The starting point of the book is the standard microscopic definition of molecular Hamiltonians presented in commonly accepted modern quantum mechanical notations Major assumptions and approximations involved in constructing Frenkel type exciton Hamiltonians which are well established but are often hidden under arcane notations and approximations of old publications are presented in detail This will help quantum chemists understand the major assumptions involved in the definition of commonly used exciton models Rate theories of exciton dynamics such as Förster and Dexter theories and their modern generalizations are presented in a unified and detailed manner In addition important aspects that are often neglected such as local field effect and the role of fluctuating environments are discussed Various quantum dynamics methods allowing coherent dynamics of excitons are presented in a systematic manner in the context of quantum master equations or path integral formalisms The author also provides a detailed theoretical explanation for the major spectroscopic techniques probing exciton dynamics including modern two dimensional electronic spectroscopy with a critical assessment of the implications of these spectroscopic measurements Finally the book includes a brief overview of major applications including an explanation of organic photovoltaic materials and natural light harvesting complexes

Spectroscopy, Relaxation, and Transport of Molecular Excitons in Noisy and Disordered Environments Chern Chuang, 2018 In this thesis contribution we theoretically investigate the spectroscopy relaxation and transport properties of Frenkel excitons in molecular aggregates with extensive comparison to or prediction of experimental observables Particular emphasis is devoted to the effects of thermal noise static disorder and system dimensionality Our key contributions are summarized as the following We study the spectroscopic signatures of excitonic molecular aggregates of dimensionality larger than unity as functions of temperature and disorder strength These findings are applied to the determination of essential system characteristics and quantitatively explain the spectroscopic traits seen in experiments where either the temperature or disorder strength is altered A classification scheme generalized from Kasha's seminal work on J and H aggregates is proposed that is compatible with experimental observations previously unexplained We recognize the importance of long wavelength approximations in understanding the density of states in two dimensional excitonic aggregates And for tubular aggregates this leads to a simple expression for the energy gap between the parallel and the perpendicular polarized peaks useful in inferring key system parameters This long wavelength approach is then extended to the analysis of 2D excitonic molecular aggregates in general A universal scaling relation concerning the steady state diffusive transport of excitons in molecular tubes is predicted and analyzed where the key order parameter is identified as the ratio between the localization length of the exciton wavefunctions and the tube circumference A unified theoretical framework is proposed to explain the relaxation of hot excitons generated in emissive conjugated polymers across three orders of magnitude in timescale with quantitative agreements with experiments

Two-dimensional Spectroscopy of Molecular Excitons in a Model Dimer System H. Alexei Halpin, 2014

Theory of Molecular Excitons A.

Davydov,2013-11-11 **Spectroscopy of the Excited State** Baldassare Di Bartolo,2012-12-06 These proceedings report the lectures and seminars presented at the NATO Advanced Study Institute on The Spectroscopy of the Excited State held at Erice Italy June 9 24 1975 This Institute was an activity of the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture The Institute consisted of a series of lectures on the spectroscopic properties of materials in excited electronic states that starting at a fundamental level finally reached the current level of research The sequence of lectures and the organization of the material taught were in keeping with a didactical presentation In essence the course had the two fold purpose of organizing what was known on the subject and updating the knowledge in the field The formal lectures were complemented by seminars whose abstracts are also included in these proceedings The proceedings report also the contributions sent by Professors R G W Norrish and S Claesson who unfortunately were not able to come because of illness A total of 62 participants and 7 lecturers came from the following countries Belgium Canada Czechoslovakia France Germany Israel Italy Japan Netherlands Norway Pakistan Poland Sweden Switzerland the United Kingdom the United States and Venezuela The secretaries of the course were A La Francesca for the administrative aspects of the meeting and P Papagiannakopoulos for the scientific aspects of the meeting **Optics and Spectroscopy** ,2005

Molecular Spectroscopy—XI O. Sild,2017-01-31 Molecular Spectroscopy XI provides information pertinent to the fundamental aspects of molecular spectroscopy This book discusses the modifications of molecular spectra when the density varies as a function of temperature and pressure Organized into 15 chapters this book begins with an overview of the several processes concerning triplet excitons leading to magnetic field sensitive luminescence in organic crystals and related compounds This text then examines the methods of investigation of the exciton band structures in molecular crystals Other chapters consider the conditions for the equivalence of Fourier spectroscopy and of slow passage experiments in nuclear magnetic resonance This book discusses as well the application of computer technology in carbon 13 magnetic resonance spectroscopy The final chapter deals with the application of high resolution proton and carbon 13 nmr spectroscopy for the investigation of the molecular conformations in proteins This book is a valuable resource for organic chemists biologists microbiologists scientists and research workers **Primary Photoexcitations In Conjugated Polymers: Molecular**

Exciton Versus Semiconductor Band Model Niyasi Serdar Sariciftci,1998-01-02 This volume concentrates on the controversy within the scientific community over how to explain understand and describe the photophysics photochemistry of this class of materials This controversy is of such a fundamental nature that the solution of the problem might be in a unification of the semiconductor and metal physics with the molecular quantum chemistry Thus a wide ranging and comprehensive discussion of this very crucial issue has not been written down yet This volume brings together the most prominent scientists specializing in this controversial topic Each contributor addresses the opponents arguments After short introductory chapters the contributors discuss their own speciality area and compare the results with both models and

explain their position on why one of the models is more appropriate Special emphasis is given to comparative discussions with other conjugated molecular systems as well as inorganic semiconductors

Symposium on Molecular Structure and Spectroscopy Ohio State University. Dept. of Physics and Astronomy, 1971

Electronic Spectra of Molecules and Ions in Crystals Donald S. McClure, 1959

Luminescence of Molecules and Crystals M. D. Galanin, 1996 The author attempts to present in a condensed form the fundamentals of the physics of luminescence He presents his own views on the subject The book is divided into the following main sections

Journal of the Chemical Society, 1986

Abstracts - Symposium on Molecular Structure and Spectroscopy, 1970

Spectroscopy and Excitation Dynamics of Condensed Molecular Systems Vladimir Moiseevich Agranovich, Robin M. Hochstrasser, 1983

Advances in Atomic and Molecular Spectroscopy Jerzy Kwela, Ryszard Drozdowski, Tomasz J. Wąsowicz, 2007

Acta Physica Polonica, 1986 General physics solid state physics applied physics

Optical Properties of Mixed Crystals Roger J. Elliott, Ija P. Ipatova, 1988 Optical Properties of Mixed Crystals is concerned with the description of optical processes in substitutionally disordered semiconductors and insulators which can be basically described through their elementary excitations Two of the chapters relate to the phonon response including the effect of side bands on electron transitions Two relate to electronic spectra one on photoelectron spectroscopy and the other on excitons A further chapter deals with magnons in magnetic crystals and a final chapter is related to fluctuations and band edge effects Each chapter deals with a specific class of excitation but the book makes it clear that the fundamental structure of the excitation spectra including band formation band tailing and localisation is common to every type of excitation The volume shows how some basic concepts and ideas can be widely applied to bring coherence and understanding to a diverse area of solid state physics It therefore provides an up to date summary of the experimental and theoretical situation in an important and rapidly developing field and brings together for the first time a discussion of the many different types of spectra which appear in mixed crystals

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web t angular velocity define an angular velocity ω angular displacement ω time interval uniform circular motion is when ω is constant combining last 3 equations $r\omega$ period $t = 2\pi / \omega$ $\theta = \omega t$ question you place a beetle on a uniformly rotating record is the beetle's tangential velocity different or the same at different radial positions

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