



# Electronic Processes In Solids

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Ascarelli, Roland J. COELHO**



## Electronic Processes In Solids:

**Electronic Processes in Solids** Pierre Aigrain, Gianni Ascarelli, Roland J. Coelho, 1960      **Electronic Processes in Solids** Pierre Aigrain, 2012-04-01 Based On Lectures Given By Pierre R Aigrain Massachusetts Institute Of Technology May 1957      **Electronic processes in solids** Pierre R. Aigrain, 1960      Electronic Processes in Solids Based on Lectures Given by Pierre R. Aigrain ... [at] Massachusetts Institute of Technology, May, 1957 Pierre Aigrain, 1960      Electronic Processes in Solids , 1960\*      **Electronic Processes in Solids** P.R. Aigrain, R.J. Coelho, G. Ascarelli, 1980      **Electronic Processes in Solids** , 1960      **Electronic Processes in Solids** , 1960      Electronic Processes in Solids. Based on Lectures Given ... May, 1957. (Prepared by Roland J. Coelho, Gianni Ascarelli.) Pierre Raoul Roger AIGRAIN, Gianni Ascarelli, Roland J. COELHO, 1960      *Electronic Processes in Solids* Pierre Rauol Aigrain, Gianni Ascarelli, 1960      *Excitonic Processes in Solids* Masayasu Ueta, Hiroshi Kanzaki, Koichi Kobayashi, Yutaka Toyozawa, Eiichi Hanamura, 2012-12-06 An exciton is an electronic excitation wave consisting of an electron hole pair which propagates in a nonmetallic solid Since the pioneering research of Frenkel Wannier and the Pohl group in the 1930s a large number of experimental and theoretical studies have been made Due to these investigations the exciton is now a well established concept and the electronic structure has been clarified in great detail The next subjects for investigation are naturally dynamical processes of excitons such as excitation relaxation annihilation and molecule formation and in fact many interesting phenomena have been disclosed by recent works These excitonic processes have been recognized to be quite important in solid state physics because they involve a number of basic interactions between excitons and other elementary excitations It is the aim of this quasi monograph to describe these excitonic processes from both theoretical and experimental points of view we take a few To discuss and illustrate the excitonic processes in solids important and well investigated insulating crystals as playgrounds for excitons on which they play in a manner characteristic of each material The selection of the materials is made in such a way that they possess some unique properties of excitonic processes and are adequate to cover important interactions in which excitons are involved In each material excitonic processes are described in detail from the experimental side in order to show the whole story of excitons in a particular material      **Electronic processes in solids : based on lectures given [at] Massachusetts Institute of Technology, May 1957** Pierre R. Aigrain, 1960 Introduction the crystal Hamiltonian The Born Oppenheimer approximation The harmonic vibrations of the nuclei Introduction to photon of the scattering Reciprocal lattice Brillouin zone Formulation of the electronic wave equation Solution of the electronic wave equation Bloch functions Introduction to conduction theory Wannier formalism and the effective mass Introduction to conduction theory Wannier formalism and the effective mass Statistical mechanics of electrons in solids Elementary notion of transport theory Calculation of the current density Scattering of electrons by phonons Mean free time for phonon scattering Nonintrinsic scattering mechanism High field conduction phenomena      Advances in Nonradiative Processes in Solids Baldassare di Bartolo, 2013-03-14 This book

presents an account of the course Advances in Nonradiative Processes in Solids held in Erice Italy from June 15 to 29 1989 This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture An area of solid state research that continues to attract the attention of experimental and theoretical physicists is that of nonradiative relaxation processes of excited solids The interest in these processes stems from their technological relevance and from the difficulty in the quantitative characterization and differentiation of their various pathways The decay channels leading to the ground state include the conversion of electronic excitation energy into phonon energy nonradiative transfer of excitation energy upconversion processes etc Considerable advances have been achieved in understanding and modeling the radiative process that follow the electronic excitations of solids the progress in this field has been instrumental in the development of new solid state devices and laser materials On the other hand these advances have underscored the inadequacy in the understanding of the nonradiative relaxation processes This course dealt with the advances in physical modeling mathematical formalisms and experimental techniques relevant to the quantitative characterization of the various pathways of nonradiative relaxation of solids in excited electronic states **Electronic**

**Processes in Organic Electronics** Hisao Ishii,Kazuhiro Kudo,Takashi Nakayama,Nobuo Ueno,2015-01-07 The book covers a variety of studies of organic semiconductors from fundamental electronic states to device applications including theoretical studies Furthermore innovative experimental techniques e g ultrahigh sensitivity photoelectron spectroscopy photoelectron yield spectroscopy spin resolved scanning tunneling microscopy STM and a material processing method with optical vortex and polarization vortex lasers are introduced As this book is intended to serve as a textbook for a graduate level course or as reference material for researchers in organic electronics and nanoscience from electronic states fundamental science that is necessary to understand the research is described It does not duplicate the books already written on organic electronics but focuses mainly on electronic properties that arise from the nature of organic semiconductors molecular solids The new experimental methods introduced in this book are applicable to various materials e g metals inorganic and organic materials Thus the book is also useful for experts working in physics chemistry and related engineering and industrial fields

Electronic Processes in Non-crystalline Materials Sir Nevill Francis Mott,Edward Arthur Davis,1971 Electronic Processes in Organic Solids Piotr Petelenz,2006 **Elementary Processes in Excitations and Reactions on Solid Surfaces** Ayao Okiji,Hideaki Kasai,Kenji Makoshi,2012-12-06 Elementary Processes in Excitations and Reactions on Solid Surfaces explores the fundamental nature of dynamics on solid surfaces Attempts are made to reveal various aspects of elementary processes in excitations and reactions on solid surfaces by recent theoretical and experimental developments of the subjects such as molecular beams interacting with surfaces ion beam scattering laser induced dynamical processes electronically induced dynamical processes and optical properties of solid surfaces This volume is divided into three parts Part I is concerned mainly with the rich reaction dynamics on potential energy surfaces Part II is devoted to the interplay of

excitations In Part III new and rapidly developing methods are introduced      *Electronic Processes At Solid Surfaces* Ellis, Kenji Makoshi, 1996-10-28 The subject of surface physics has now grown to become an exciting interdisciplinary field of research with important practical applications The purpose of this book is to provide a guided tour of some recent advances key research issues and approaches in electronic processes at solid surfaces Apart from a few structural studies selected topics have been chosen to illustrate the dynamical response of the solid surface to external probes with the main emphasis on electron transfer phenomena      **Special Issue Electronic Processes in Organic Solids** Piotr Petelenz, 2006

*Electrical and Related Properties of Organic Solids* R.W. Munn, Andrzej Miniewicz, Bogdan Kuchta, 2012-12-06 Organic solids exhibit a wide range of electrical and related properties They occur as crystals glasses polymers and thin films they may be insulators semiconductors conductors or superconductors and they may show luminescence nonlinear optical response and complex dynamical behaviour The book provides a broad survey of this area written by international experts one third being drawn from Eastern Europe Electrical optical spectroscopic and structural aspects are all treated in a way that gives an excellent introduction to current themes in this highly interdisciplinary and practically important area The coverage is especially strong in the areas where electrical and optical properties overlap such as photoconductivity electroluminescence electroabsorption electro optics and photorefractive

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