



THE INTERNATIONAL SERIES
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Electronic Processes in Non-crystalline Materials

Second Edition

N. F. MOTT and
E. A. DAVIS

Electronic Processes In Non Crystalline Materials

Second Edition

A. Andriesh, M. Bertolotti



Electronic Processes In Non Crystalline Materials Second Edition:

Electronic Processes in Non-crystalline Materials Sir Nevill Francis Mott, Edward Arthur Davis, 1971 **Electronic Processes in Non-Crystalline Materials** Nevill Francis Mott, Edward A Davis, 2012-02-02 Since the first edition of this highly successful book the field saw many great developments both in experimental and theoretical studies of electrical properties of non crystalline solids It became necessary to rewrite nearly the whole book while the aims of the second edition remained the same to set out the theoretical concepts to test them by comparison with experiment for a wide variety of phenomena and to apply them to non crystalline materials Sir Nevill Mott shared the 1977 Nobel Prize for Physics awarded for his research work in this field The reissue of this book as part of the Oxford Classic Texts in the Physical Sciences is a reprint of the second edition which was published in 1979 *Optoelectronics of Molecules and Polymers* André Moliton, 2010-05-30 Optoelectronic devices are currently being developed at an extraordinary rate Organic light emitting diodes photovoltaic devices and electro optical modulators are pivotal to the future of displays photosensors and solar cells and communication technologies This book details the theories underlying the mechanisms involved in the relevant organic materials and covers at a basic level how the organic components are made The first part of the book introduces the fundamental theories used to describe ordered solids and goes onto detail on concepts applicable to localised energy levels Then the methods used to determine energy levels particular to perfectly ordered molecular and macromolecular systems are discussed along with a detailed consideration of the effects of quasi particles The function of excitons and their transfer between two molecules is studied and in addition the problems associated with interfaces and charge injection into resistive media are presented More technological aspects are covered in the second part which details the actual methods used to fabricate devices based on organic materials such as dry etching The principal characterisation techniques are also highlighted Specific attention is paid to visual displays using organic light emitting diodes the conversion of photons into electrical energy the photovoltaic effect and for communications and information technologies the electro optical modulation of signals Non-Crystalline Chalcogenicides M.A. Popescu, 2006-04-11 The earliest experimental data on an oxygen free glass have been published by Schulz Sellack in 1870 1 Later on in 1902 Wood 2 as well as Meier in 1910 3 carried out the first researches on the optical properties of vitreous selenium The interest in the glasses that exhibit transparency in the infrared region of the optical spectrum rose at the beginning of the twentieth century Firstly were investigated the heavy metal oxides and the transparency limit was extended from the case of the classical oxide glasses up to wavelength In order to extend this limit above the scientists tried the chemical compositions based on the elements of the sixth group of the Periodic Table the chalcogens sulphur selenium and tellurium The systematic research in the field of glasses based on chalcogens called chalcogenide glasses started at the middle of our century In 1950 Frerichs 4 investigated the glass and published the paper New optical glasses transparent in infrared up to 12 Several years later he started the study of the

selenium glass and prepared several binary glasses with sulphur 5 Glaze and co workers 6 developed in 1957 the first method for the preparation of the glass at the industrial scale while Winter Klein 7 published reports on numerous chalcogenides prepared in the vitreous state *Physics of Disordered Materials* David Adler,2012-12-06 This volume and its two companion volumes entitled Tetrahedrally Bonded Amorphous Semiconductors and Localization and Metal Insulator Transitions are our way of paying special tribute to Sir Nevill Mott and to express our heartfelt wishes to him on the occasion of his eightieth birthday Sir Nevill has set the highest standards as a physicist teacher and scientific leader Our feelings for him include not only the respect and admiration due a great scientist but also a deep affection for a great human being who possesses a rare combination of outstanding personal qualities We thank him for enriching our lives and we shall forever carry cherished memories of this noble man Scientists best express their thanks by contributing their thoughts and observations to a Festschrift This one honoring Sir Nevill fills three volumes with literally hundreds of authors meeting a strict deadline The fact that contributions poured in from all parts of the world attests to the international cohesion of our scientific community It is a tribute to Sir Nevill s stand for peace and understanding transcending national borders The editors wish to express their gratitude to Ghazaleh Koefod for her diligence and expertise in deciphering and typing many of the papers as well as helping in numerous other ways The blame for the errors that remain belongs to the editors

Dielectric Phenomena in Solids Kwan Chi Kao,2004-03-11 The only available comprehensive reference on dielectric phenomena in solids **Polarons** David Emin,2013 A distinctive introduction to the principles governing polaron science for experimental and theoretical graduate students and researchers **Introductory Solid State Physics, Second Edition** H.P. Meyers,H.P. Myers,1997-04-26 Assuming an elementary knowledge of quantum and statistical physics this book provides a comprehensive guide to principal physical properties of condensed matter as well as the underlying theory necessary for a proper understanding of their origins The subject matter covers the principal features of condensed matter physics but with particular accent on the properties of metal alloys Relevance to technical applications is recognized

Nevill Mott E. A. Davis,1998-03-17 Sir Nevill Mott was Britain s last Winner of the Nobel Prize for Physics This is a tribute to the life and work of Nobel Laureate Nevill Mott a hugely admired and appreciated man and one of this countries greatest ever scientists It includes contributions from over 80 of his friends family and colleagues full of anecdotes and appreciations for this collossus of modern physics **Introduction to Applied Solid State Physics** R. Dalven,2012-12-06 In addition to the topics discussed in the First Edition this Second Edition contains introductory treatments of superconducting materials and of ferromagnetism I think the book is now more balanced because it is divided perhaps 60% 40% between devices of all kinds and materials of all kinds For the physicist interested in solid state applications I suggest that this ratio is reasonable I have also rewritten a number of sections in the interest of hopefully increased clarity The aims remain those stated in the Preface to the First Edition the book is a survey of the physics of a number of solid state devices

and materials Since my object is a discussion of the basic ideas in a number of fields I have not tried to present the state of the art especially in semiconductor devices Applied solid state physics is too vast and rapidly changing to cover completely and there are many references available to recent developments For these reasons I have not treated a number of interesting areas Among the lacunae are superlattices heterostructures compound semiconductor devices ballistic transistors integrated optics and light wave communications Suggested references to those subjects are given in an appendix I have tried to cover some of the recent revolutionary developments in superconducting materials

Quantum Theory of the Solid State Joseph Callaway, 2013-10-22 This new edition presents a comprehensive up to date survey of the concepts and methods in contemporary condensed matter physics emphasizing topics that can be treated by quantum mechanical methods The book features tutorial discussions of a number of current research topics Also included are updated treatments of topics that have developed significantly within the past several years such as superconductivity magnetic impurities in metals methods for electronic structure calculations magnetic ordering in insulators and metals and linear response theory Advanced level graduate students and practicing condensed matter physicists will use the second edition of *Quantum Theory of the Solid State* as an important source of information

Renormalization group theory Integer and fractional quantum Hall effect Transport in mesoscopic systems and Numerical methods in many body theory

Introduction to Applied Solid State Physics Richard Dalven, 2012-12-06 The aim of this book is a discussion at the introductory level of some applications of solid state physics The book evolved from notes written for a course offered three times in the Department of Physics of the University of California at Berkeley The objects of the course were a to broaden the knowledge of graduate students in physics especially those in solid state physics b to provide a useful course covering the physics of a variety of solid state devices for students in several areas of physics c to indicate some areas of research in applied solid state physics To achieve these ends this book is designed to be a survey of the physics of a number of solid state devices As the italics indicate the key words in this description are physics and survey Physics is a key word because the book stresses the basic qualitative physics of the applications in enough depth to explain the essentials of how a device works but not deeply enough to allow the reader to design one The question emphasized is how the solid state physics of the application results in the basic useful property of the device An example is how the physics of the tunnel diode results in a negative dynamic resistance Specific circuit applications of devices are mentioned but not emphasized since expositions are available in the electrical engineering textbooks given as references

Glass ... Current Issues A.F. Wright, J. Dupuy, 2012-12-06 *Glass Current Issues* is the proceedings of a NATO Advanced Study Institute held in Puerto de la Cruz Tenerife between the 2nd and 13th April 1984 The objectives of the School were twofold Firstly to inform participants of actual and developing technological applications of glassy materials in which fundamental science makes a strong contribution and secondly to bring together scientists from the widely different backgrounds of glass science and technology to promote mutual understanding and collaboration The

amorphous state has for more than a decade now been a renaissance of scientific and technological activity extending beyond traditional glass technology research Striking developments of amorphous materials have been made in fields such as metallurgy electronics and telecommunications and even in disciplines until recently less concerned by materials science such as colloid chemistry medicine and agriculture The physical and chemical properties brought into application here result from the interaction between the glass composition and its non crystalline structure One role of the basic research is to understand this interaction which in time through development helps to extend the range of properties and applications In this meeting we hoped to sensitize participants to the vast range of applications of amorphous materials which exploit their unique properties and thus broaden future investigation The program was organised around seven topics signposts of scientific and technological activity in the 1980 S optical materials amorphous metals crystallisation phenomena electronic and electrical devices sol gel preparative methods composite materials and long term applications Gamma Radiation
Feriz Adrovic,2012-03-21 This book brings new research insights on the properties and behavior of gamma radiation studies from a wide range of options of gamma radiation applications in Nuclear Physics industrial processes Environmental Science Radiation Biology Radiation Chemistry Agriculture and Forestry sterilization food industry as well as the review of both advantages and problems that are present in these applications The book is primarily intended for scientific workers who have contacts with gamma radiation such as staff working in nuclear power plants manufacturing industries and civil engineers medical equipment manufacturers oncologists radiation therapists dental professionals universities and the military as well as those who intend to enter the world of applications and problems of gamma radiation Because of the global importance of gamma radiation the content of this book will be interesting for the wider audience as well

Amorphous Semiconductors Sándor Kugler,Koichi Shimakawa,2015-02-12 Understanding the structural unit of crystalline solids is vital in determining their optical and electronic properties However the disordered nature of amorphous semiconductors where no long range order is retained makes it difficult to determine their structure using traditional methods This book shows how computer modelling can be used to overcome the difficulties that arise in the atomic scale identification of amorphous semiconductors The book explains how to generate a random structure using computer modelling providing readers with the techniques to construct realistic material structures It shows how the optical and electronic properties are related to random structures Readers will be able to understand the characteristic features of disordered semiconductors The structural and electronic modifications by photon irradiation are also discussed in detail This book is ideal for both physicists and engineers working in solid state physics semiconductor engineering and electrical engineering Advances in Condensed-Matter and Materials Physics Jagannathan Thirumalai,Sergey Ivanovich Pokutnyi,2020-05-06 This book Condensed Matter and Material Physics incorporates the work of multiple authors to enhance the theoretical as well as experimental knowledge of materials The investigation of crystalline solids is a growing need in the

electronics industry Micro and nano transistors require an in depth understanding of semiconductors of different groups Amorphous materials on the other hand as non equilibrium materials are widely applied in sensors and other medical and industrial applications Superconducting magnets composite materials lasers and many more applications are integral parts of our daily lives Superfluids liquid crystals and polymers are undergoing active research throughout the world Hence profound information on the nature and application of various materials is in demand This book bestows on the reader a deep knowledge of physics behind the concepts perspectives characteristic properties and prospects The book was constructed using 10 contributions from experts in diversified fields of condensed matter and material physics and its technology from over 15 research institutes across the globe

Physics and Applications of Non-Crystalline Semiconductors in Optoelectronics A. Andriesh, M. Bertolotti, 2012-12-06 The Workshop on Physics and Application of Non crystalline Semiconductors in Optoelectronics was held from 15 to 17 October 1996 in Chisinau republic of Moldova and was devoted to the problems of non crystalline semiconducting materials The reports covered two main topics theoretical basis of physics of non crystalline materials and experimental results In the framework of these major topics there were treated many subjects concerning the physics of non crystalline semiconductors and their specific application optical properties of non crystalline semiconductors doping of glassy semiconductors and photoinduced effects in chalcogenide glasses and their application for practical purposes methods for investigation of the structure in non crystalline semiconductors new glassy materials for IR transmittance and optoelectronics Reports and communications were presented on various aspects of the theory new physical principles studies of the atomic structure search and development of optoelectronics devices Special attention was paid to the actual subject of photoinduced transformations and its applications Experimental investigations covered a rather wide spectrum of materials and physical phenomena As a novel item it is worth to mention the study of nonlinear optical effects in amorphous semiconducting films The third order optical nonlinearities fast photoinduced optical absorption and refraction acousto optic effects recently discovered in non crystalline semiconductors could potentially be utilised for optical signal processing The important problems of photoinduced structural transformations and related phenomena which are very attractive and actual both from the scientific and practical points of view received much attention in discussions at the conference

Fundamentals of Inorganic Glasses Arun K. Varshneya, 2013-10-22 Although several fine volumes have been published on special topics in glass Fundamentals of Inorganic Glasses is the first book to provide the breadth required of a comprehensive undergraduate textbook In a clear tutorial style this volume provides comprehensive coverage of the composition structure and properties of inorganic glasses Designed to serve as the primary text for glass science courses at the upper undergraduate level this book facilitates learning with a clear discussion of fundamental concepts chapter ending problem sets an emphasis on key ideas and timely notes on suggested readings Professor Varshneya has filled a gap in the existing literature by providing a textbook that is uniquely comprehensive while striving always to help the student develop a

clear understanding of the fundamentals underlying glass science Clearly develops fundamental concepts Provides comprehensive discussion of the composition structure and properties of inorganic glasses Leads the reader through areas where a deeper understanding is needed Presents necessary mathematics in a readable manner Introduces numerous and interesting real world examples that give the reader insight into application of the material covered in the text Concludes chapters with problem sets and suggested readings to facilitate self study

Percolation, Localization, and Superconductivity Allen Goldman, 2013-11-22 The study of the effects of dimensionality and disorder on phase transitions electronic transport and superconductivity has become an important field of research in condensed matter physics These effects are both classical and quantum mechanical in nature and are observed universally in urealu materials What may at first glance seem a diverse collection of lectures which form the chapters of these proceedings is in fact an attempt to demonstrate the commonality inter relationship and general applicability of the phenomena of localization percolation and macroscopic quantum effects on electrical transport and superconductivity in disordered solids The theory of these phenomena is presented in a complete yet self contained fashion and the inter relationship between the topics is emphasized An extensive treatment of experimental results is also included both those which have stimulated the theory as well as those that have confirmed it Many of the phenomena investigated in this field also have technological significance For example the nature of electronic localization in metals in which one or more dimensions are constrained is very important when one attempts to predict the behavior of the metallic interconnects in ultra miniature circuits

Ionizing Radiation Effects in MOS Devices and Circuits T. P. Ma, Paul V. Dressendorfer, 1989-04-18 The first comprehensive overview describing the effects of ionizing radiation on MOS devices as well as how to design fabricate and test integrated circuits intended for use in a radiation environment Also addresses process induced radiation effects in the fabrication of high density circuits Reviews the history of radiation hard technology providing background information for those new to the field Includes a comprehensive review of the literature and an annotated listing of research activities in radiation hardness research

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