

# Mechanics of the Solid State

EDITED BY F.P.J. RIMROTT AND J. SCHWAIGHOFER



# Mechanics Of The Solid State

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## **Mechanics Of The Solid State:**

**Mechanics of the Solid State** F. P. J. Rimrott, 1968      Introductory Quantum Mechanics for the Solid State Richard L. Longini, 1970 This undergraduate text is designed to expound the basic ideas of quantum mechanics for atomic binding and for solids using as little mathematics as possible The purpose of this approach is to help the student avoid the common confusion where physics leaves off and mathematics begins Preface      *Introduction to the Physics of Electron Emission* Kevin L. Jensen, 2024-08-19 A practical in depth description of the physics behind electron emission physics and its usage in science and technology Electron emission is both a fundamental phenomenon and an enabling component that lies at the very heart of modern science and technology Written by a recognized authority in the field with expertise in both electron emission physics and electron beam physics An Introduction to Electron Emission provides an in depth look at the physics behind thermal field photo and secondary electron emission mechanisms how that physics affects the beams that result through space charge and emittance growth and explores the physics behind their utilization in an array of applications The book addresses mathematical and numerical methods underlying electron emission describing where the equations originated how they are related and how they may be correctly used to model actual sources for devices using electron beams Writing for the beam physics and solid state communities the author explores applications of electron emission methodology to solid state statistical and quantum mechanical ideas and concepts related to simulations of electron beams to condensed matter solid state and fabrication communities Provides an extensive description of the physics behind four electron emission mechanisms field photo and secondary and how that physics relates to factors such as space charge and emittance that affect electron beams Introduces readers to mathematical and numerical methods their origins and how they may be correctly used to model actual sources for devices using electron beams Demonstrates applications of electron methodology as well as quantum mechanical concepts related to simulations of electron beams to solid state design and manufacture Designed to function as both a graduate level text and a reference for research professionals Introduction to the Physics of Electron Emission is a valuable learning tool for postgraduates studying quantum mechanics statistical mechanics solid state physics electron transport and beam physics It is also an indispensable resource for academic researchers and professionals who use electron sources model electron emission develop cathode technologies or utilize electron beams

Electronic Materials Yuriy M. Poplavko, 2018-11-23 Mechanical and thermal properties are reviewed and electrical and magnetic properties are emphasized Basics of symmetry and internal structure of crystals and the main properties of metals dielectrics semiconductors and magnetic materials are discussed The theory and modern experimental data are presented as well as the specifications of materials that are necessary for practical application in electronics The modern state of research in nanophysics of metals magnetic materials dielectrics and semiconductors is taken into account with particular attention to the influence of structure on the physical properties of nano materials The book uses simplified mathematical treatment of

theories while emphasis is placed on the basic concepts of physical phenomena in electronic materials. Most chapters are devoted to the advanced scientific and technological problems of electronic materials in addition some new insights into theoretical facts relevant to technical devices are presented. Electronic Materials is an essential reference for newcomers to the field of electronics providing a fundamental understanding of important basic and advanced concepts in electronic materials science. Provides important overview of the fundamentals of electronic materials properties significant for device applications along with advanced and applied concepts essential to those working in the field of electronics. Takes a simplified and mathematical approach to theories essential to the understanding of electronic materials and summarizes important takeaways at the end of each chapter. Interweaves modern experimental data and research in topics such as nanophysics, nanomaterials and dielectrics.

*Fundamentals of Semiconductor Physics and Devices* Rolf Enderlein, Norman J. M. Horing, 1997. This book is an introduction to the principles of semiconductor physics linking its scientific aspects with practical applications. It is addressed to both readers who wish to learn semiconductor physics and those seeking to understand semiconductor devices. It is particularly well suited for those who want to do both. Intended as a teaching vehicle, the book is written in an expository manner aimed at conveying a deep and coherent understanding of the field. It provides clear and complete derivations of the basic concepts of modern semiconductor physics. The mathematical arguments and physical interpretations are well balanced; they are presented in a measure designed to ensure the integrity of the delivery of the subject matter in a fully comprehensible form. Experimental procedures and measured data are included as well. The reader is generally not expected to have background in quantum mechanics and solid state physics beyond the most elementary level. Nonetheless, the presentation of this book is planned to bring the student to the point of research design capability as a scientist or engineer. Moreover, it is sufficiently well endowed with detailed knowledge of the field including recent developments bearing on submicron semiconductor structures that the book also constitutes a valuable reference resource.

In Chapter 1, basic features of the atomic structures, chemical nature and the macroscopic properties of semiconductors are discussed. The band structure of ideal semiconductor crystals is treated in Chapter 2 together with the underlying one electron picture and other fundamental concepts. Chapter 2 also provides the requisite background of the tight binding method and the  $k \cdot p$  method which are later used extensively. The electron states of shallow and deep centers, clean semiconductor surfaces, quantum wells and superlattices as well as the effects of external electric and magnetic fields are treated in Chapter 3. The one or multi band effective mass theory is used wherever this method is applicable. A summary of group theory for application in semiconductor physics is given in an Appendix. Chapter 4 deals with the statistical distribution of charge carriers over the band and localized states in thermodynamic equilibrium. Non equilibrium processes in semiconductors are treated in Chapter 5. The physics of semiconductor junctions, pn hetero metal and insulator is developed in Chapter 6 under conditions of thermodynamic equilibrium and in Chapter 7 under non equilibrium conditions. On this basis

the most important electronic and opto electronic semiconductor devices are treated among them uni and bi polar transistors photodetectors solar cells and injection lasers A summary of group theory for applications in semiconductors is given in an Appendix

Fundamentals of Solid State Engineering Manijeh Razeghi, 2006-06-12 Fundamentals of Solid State Engineering 2nd Edition provides a multi disciplinary introduction to Solid State Engineering combining concepts from physics chemistry electrical engineering materials science and mechanical engineering Basic physics concepts are introduced followed by a thorough treatment of the technology for solid state engineering Topics include compound semiconductor bulk and epitaxial thin films growth techniques current semiconductor device processing and nano fabrication technologies Examples of semiconductor devices and a description of their theory of operation are then discussed including transistors semiconductor lasers and photodetectors Revised throughout this second edition includes new chapters on the reciprocal lattice optical properties of semiconductors semiconductor heterostructures semiconductor characterization techniques and an introduction to lasers Additions and improvements have been made to the material on photodetectors and quantum mechanics as well as to the problem sections

**Methods of Fracture Mechanics: Solid Matter Physics** G.P. Cherepanov, 2013-03-09 Modern fracture mechanics considers phenomena at many levels macro and micro it is therefore inextricably linked to methods of theoretical and mathematical physics This book introduces these sophisticated methods in a straightforward manner The methods are applied to several important phenomena of solid state physics which impinge on fracture mechanics adhesion defect nucleation and growth dislocation emission sintering the electron beam effect and fractal cracks The book shows how the mathematical models for such processes may be set up and how the equations so formulated may be solved and interpreted The many open problems which are encountered will provide topics for MSc and PhD theses in fracture mechanics and in theoretical and experimental physics As a supplementary text the book can be used in graduate level courses on fracture mechanics solid matter physics and mechanics of solids or in a special course on the application of fracture mechanics methods in solid matter physics

Applied Mechanics Reviews ,1973 **NRL Review** ,2016 **NASA Thesaurus** ,1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved

**U.S. Government Research Reports** ,1963 **Illinois Technograph** ,1962 Application of Nonlinear Systems in Nanomechanics and Nanofluids Davood Domairry Ganji, Sayyid Habibollah Hashemi Kachapi, 2015-03-19 With Application of Nonlinear Systems in Nanomechanics and Nanofluids the reader gains a deep and practice oriented understanding of nonlinear systems within areas of nanotechnology application as well as the necessary knowledge enabling the handling of such systems The book helps readers understand relevant methods and techniques for solving nonlinear problems and is an invaluable reference for researchers professionals and PhD students interested in research areas and industries where nanofluidics and dynamic nano mechanical systems are studied or applied The book is useful in areas such as nanoelectronics and bionanotechnology and the underlying framework can also be applied to other problems in various

fields of engineering and applied sciences Provides comprehensive coverage of nano dynamical systems and their specialized processes and applications in the context of nonlinear differential equations and analytical methods Enables researchers and engineers to better model interpret and control nanofluidics and other nano dynamical systems and their application processes Explains nano dynamical systems by means of describing real life application case studies **How Do We Know?** Dirk Evers,Antje Jackelen,Taede Smedes,2010-04-15 A study on the relationship between science and theology with respect to epistemological differences between religious belief and scientific knowledge **The Technical Student's Introduction to Mechanics ...** Robert Scott Burn,1892 Master of Modern Physics Dirk ter Haar,2020-10-06 The Dutch scientist Hendrik Kramers 1894 1952 was one of the greatest theoretical physicists of the twentieth century and one of a mere handful who have made major contributions across the whole field Physicists know his name from among other things the Kramers dispersion theory the Kramers Heisenberg dispersion formulae the Kramers opacity formula the Kramers degeneracy and the Kramers Kronig relations Yet few people know more than the name or recognize the full depth and range of his contributions In this book D ter Haar seeks to change that He presents for the first time anywhere a comprehensive discussion of Kramers s scientific work and reprints twelve of his most important papers The author shows us that Kramers s remarkable and diverse work makes him at least the equal of such celebrated physicists as Fermi and Landau He takes us through Kramers s groundbreaking research in such subjects as quantum theory quantum electrodynamics statistical mechanics and solid state physics The papers he reprints include Kramers s derivation of the dispersion formulae that led to Heisenberg s matrix mechanics his classic paper on the Brownian motion approach to chemical reactions a pioneering paper on polymers and a paper on renormalization a concept first introduced by Kramers and now one of the basic ideas of modern field theory This book will change how we view the course of twentieth century science and will show that Kramers was indeed one of the masters of modern physics *U.S. Government Research & Development Reports* ,1970 **Mechanics for junior students** William James Browne,1883 **Nanoscale Materials and Devices for Electronics, Photonics and Solar Energy** Anatoli Korkin,Stephen Goodnick,Robert Nemanich,2015-08-26 This book presents research dedicated to solving scientific and technological problems in many areas of electronics photonics and renewable energy Progress in information and renewable energy technologies requires miniaturization of devices and reduction of costs energy and material consumption The latest generation of electronic devices is now approaching nanometer scale dimensions new materials are being introduced into electronics manufacturing at an unprecedented rate and alternative technologies to mainstream CMOS are evolving The low cost of natural energy sources have created economic barriers to the development of alternative and more efficient solar energy systems fuel cells and batteries Nanotechnology is widely accepted as a source of potential solutions in securing future progress for information and energy technologies Nanoscale Materials and Devices for Electronics Photonics and Solar Energy features chapters that cover the following areas atomic scale materials design bio

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