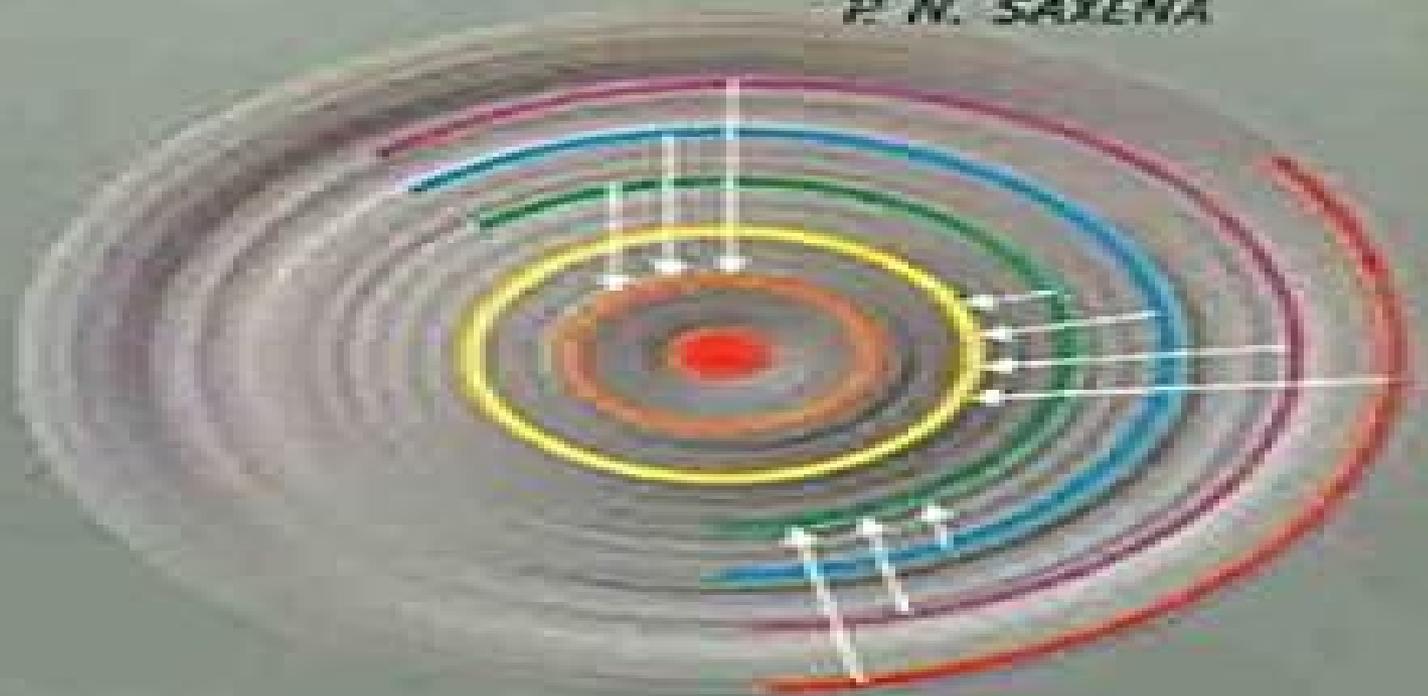


Elementary

SOLID STATE PHYSICS & DEVICES

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Elementary Solid State Physics And Devices

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Electronic Properties of Materials Rolf E. Hummel,2013-04-17

The present book on electrical optical magnetic and thermal properties of materials is in many aspects different from other introductory texts in solid state physics First of all this book is written for engineers particularly materials and electrical engineers who want to gain a fundamental understanding of semiconductor devices magnetic materials lasers alloys etc Second it stresses concepts rather than mathematical formalism which should make the presentation relatively easy to understand Thus this book provides a thorough preparation for advanced texts monographs or specialized journal articles Third this book is not an encyclopedia The selection of topics is restricted to material which is considered to be essential and which can be covered in a 15 week semester course For those professors who want to teach a two semester course supplemental topics can be found which deepen the understanding These sections are marked by an asterisk Fourth the present text leaves the teaching of crystallography X ray diffraction diffusion lattice defects etc to those courses which specialize in these subjects As a rule engineering students learn this material at the beginning of their upper division curriculum The reader is however reminded of some of these topics whenever the need arises Fifth this book is distinctly divided into five self contained parts which may be read independently *Elementary Solid State Physics* M A. Omar,1987

Theory of Semiconductor Junction Devices J. H. Leck,2013-10-22 *Theory of Semiconductor Junction Devices* A Textbook for Electrical and Electronic Engineers presents the simplified numerical computation of the fundamental electrical equations specifically Poisson's and the Hall effect equations This book provides the fundamental theory relevant for the understanding of semiconductor device theory Comprised of 10 chapters this book starts with an overview of the application of band theory to the special case of semiconductors both intrinsic and extrinsic This text then describes the electrical properties of conductivity semiconductors and Hall effect leading to the main topic of p n junction theory Other chapters examine the characteristics of the p n junction in detail as this forms the fundamental element in the majority of semiconductor devices The final chapter deals with the field effect transistor which is known as the unipolar transistor This book is a valuable resource for students of solid state electronics Electrical and electronic engineers will also find this book useful *Solid State Physics* Harold T. Stokes,1987 **Semiconductor Silicon Crystal Technology** Fumio

Shimura,2012-12-02 *Semiconductor Silicon Crystal Technology* provides information pertinent to silicon which is the dominant material in the semiconductor industry This book discusses the technology of integrated circuits ICs in electronic materials manufacturer Comprised of eight chapters this book provides an overview of the basic science silicon materials IC device fabrication processes and their interaction for enhancing both the processes and materials This text then proceeds with a discussion of the atomic structure and bonding mechanisms in order to understand the nature and formation of crystal

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Semiconductors and Electronic Devices Adir Bar-Lev,1984 **American Journal of Physics** ,1975 *Elementary Solid State Physics* Charles Kittel, 1916-,1966 **New Technical Books** New York Public Library,1926 Elementary Solid State Physics Charles Kittel,1964 **Principles of Electronic Circuits** Stanley G. Burns,Paul R. Bond,1997 Accompanying CD ROM includes Evaluation version of PSPICE SPICE netlists Electronic Workbench circuit models and Acrobat transparencies **Process and Device Modeling** Walter L. Engl,1986 This book is the first of a new seven volume series which aims to provide a comprehensive description of basic methods and technologies related to CAD for VLSI The series includes up to date results and latest developments with a good balance between theoretical and practical aspects of VLSI design In this volume emphasis is placed on the basics of modeling the opening chapters being devoted to fundamental process and device modeling The following chapters cover different aspects of device modeling and also bridge to process simulation on the one side and circuit simulation on the other A systems approach to physical modeling spanning the whole range of topics covered is also dealt with Recent conferences on the subject have signalled that physical modeling combined with technology device and circuit optimization will undoubtedly become a major trend in the future *The Gunn-Hilsum Effect* Melvin P. Shaw,Harold L. Grubin,Peter R. Solomon,1979 The Gunn Hilsum Effect covers the physical principles controlling the operation of transferred electron devices These devices have been proven quite useful in the generation amplification and processing of microwave signals well into tens of gigahertz range Organized into seven chapters the book focuses on the analytical and numerical approaches of the two vital aspects of device behavior for a given bulk semiconductor boundary conditions or contacts and the local circuit environment The opening chapter of this book discusses the negative differential mobility NDM characteristics for a range of electric fields in the velocity field relation of specific semiconductors and the response of such a sample to a charge fluctuation leading to the growth of stationary and or traveling high electric field domains The next two chapters describe how the boundary conditions and the circuit control the manifestation of current instabilities in such systems and how this control can be understood in a simple manner Chapters 4 and 5 discuss the numerical and experimental investigations of comparatively long bulk samples with an emphasis on the essential NDM semiconductor n GaAs These chapters also examine the production of different current voltage relationships and instabilities by cathode contacts and the control of the oscillatory characteristics of an electrically unstable sample by different circuit conditions Chapter 6 presents both time independent and time dependent computations with the latter

focusing on the small signal impedance and stability aspects The last chapter of this book addresses the construction and evaluation of typical short devices describes how their oscillatory characteristics compare with the long samples studied in the first six chapters and discusses the use of short devices as amplifiers This book is an ideal source for device engineers and designers wishing to apply transferred electron devices in creative ways **Graduate Studies**, 1978 Energy and Ceramics P. Vincenzini, 1980 *Photonic Bandgap Materials and Devices* Ali Adibi, Axel Scherer, Shawn-Yu Lin, 2002

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