

**SOLID STATE  
PHYSICAL  
ELECTRONICS**

ALBERT VAN DER ZIEL

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# Solid State Physical Electronics

**Aldert VAN DER ZIEL**



## **Solid State Physical Electronics:**

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**Solid State Physical Electronics Series** ,19??      **Prentice-Hall series in solid state physical electronics** ,19??

**Solid State Physical Electronics** Aldert Van der Ziel (Elektroingenieur, Niederlande, USA),1968      *Solid State*

*Physical Electronics* VanderZiel,1958      **Solid State Physical Electronics** Aldert VanDerZiel,1965      Physical

Foundations of Solid-State Devices E. Fred Schubert,2022-02-22 It is beneficial for technical personnel working in the field of microelectronics optoelectronics and photonics to get a good understanding of the physical foundations of modern semiconductor devices Questions that technical personnel may ask are How are electrons propagating in the periodic potential of a crystal lattice What are the foundations of semiconductor heterostructure devices How does quantum mechanics relate to semiconductor heterostructures This book tries to answer questions such as these The book provides a basis for the understanding of modern semiconductor devices that have dimensions in the nanometer range that is comparable to the electron de Broglie wavelength For such small spatial dimensions classical physics no longer gives a full description of physical processes The inclusion of quantum mechanical principles becomes mandatory and provides a useful description of common physical processes in electronic optoelectronic and photonic devices Chapters 1 to 11 teach the quantum mechanical principles including the postulates of quantum mechanics operators the uncertainty principle the Schrödinger equation non periodic and periodic potentials quantum wells and perturbation theory Chapters 12 to 20 apply these principles to semiconductor devices and discuss the density of states semiconductor statistics carrier concentrations doping tunneling and aspects of heterostructure devices The 2022 edition is a complete revision of the 2015 edition and also updates the formatting to make it easily viewable with electronic display devices      Solid State Electronic Devices Ben G.

Streetman,1980      **Prentice-Hall series in solid state physical electronics** ,      *Introduction to Solid State Electronics*

F.F.Y. Wang,2012-12-02 This textbook is specifically tailored for undergraduate engineering courses offered in the junior

year providing a thorough understanding of solid state electronics without relying on the prerequisites of quantum mechanics In contrast to most solid state electronics texts currently available with their generalized treatments of the same topics this is the first text to focus exclusively and in meaningful detail on introductory material The original text has already been in use for 10 years In this new edition additional problems have been added at the end of most chapters These problems are meant not only to review the material covered in the chapter but also to introduce some aspects not covered in the text An amended Solutions Manual is in preparation      **Fundamentals of Solid-state Electronics** Chih-Tang Sah,1991 This is

perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics It presents

basic and state of the art topics on materials physics device physics and basic circuit building blocks not covered by existing textbooks on the subject Each topic is introduced with a historical background and motivations of device invention and circuit evolution Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study Used very successfully in a one semester introductory core course for electrical and other engineering materials science and physics junior students the second part of each chapter is also used in an advanced undergraduate course on solid state devices The inclusion of previously unavailable analyses of the basic transistor digital circuit building blocks and cells makes this an excellent reference for engineers to look up fundamental concepts and data design formulae and latest devices such as the GeSi heterostructure bipolar transistors

Solid-State Physics for Electronics Andre Moliton,2013-03-01 Describing the fundamental physical properties of materials used in electronics the thorough coverage of this book will facilitate an understanding of the technological processes used in the fabrication of electronic and photonic devices The book opens with an introduction to the basic applied physics of simple electronic states and energy levels Silicon and copper the building blocks for many electronic devices are used as examples Next more advanced theories are developed to better account for the electronic and optical behavior of ordered materials such as diamond and disordered materials such as amorphous silicon Finally the principal quasi particles phonons polarons excitons plasmons and polaritons that are fundamental to explaining phenomena such as component aging phonons and optical performance in terms of yield excitons or communication speed polarons are discussed

**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

**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. *Solid State Electronic Devices, Anniversary Edition* Ben Garland Streetman, Sanjay Banerjee, 2004      **Solid State Electronic Devices** Ben G. Streetman, 1990

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