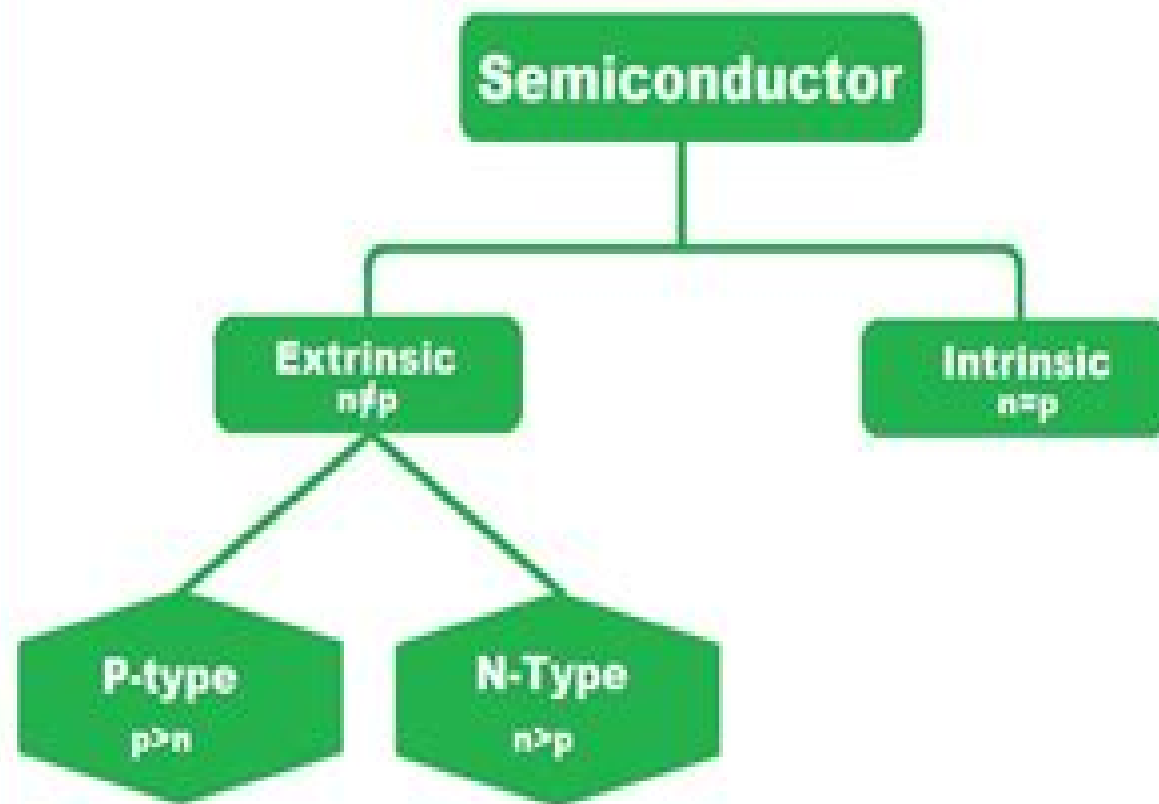


What is a Semiconductor?

- ➡ A **semiconductor** is a material, whose conductivity properties lie between the conductor and insulator.
- ➡ Semiconductor Examples are: **Silicon, Germanium, Gallium Arsenide** etc.



- ➡ "n" stands for negative (free electrons)
- ➡ "p" stands for positive (holes)

Semiconductor Components



Semiconductor Device

Chao Zhang



Semiconductor Device:

Semiconductor Devices Jasprit Singh, 2000-08-03 This introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications The text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based Topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed Next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance Issues such as how doping device dimensions and parasitic effects influence device operation are also included The book is appropriate for the following courses Device Physics Semiconductor Devices Device Electronics Physics of Semiconductor Devices Integrated Circuit Devices Device Electronics Solid State Devices

An Introduction to Semiconductor Devices Donald A Neamen, 2006 An Introduction to Semiconductor Devices by Donald Neamen is designed to provide a fundamental understanding of the characteristics operations and limitations of semiconductor devices In order to meet this goal the book brings together explanations of fundamental physics of semiconductor materials and semiconductor device physics This new text provides an accessible and modern approach to the material Aimed at the undergraduate Neamen keeps coverage of quantum mechanics to a minimum and labels the most advanced material as optional MOS transistors are covered before bipolar transistors to reflect the dominance of MOS coverage in today s world

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Introductory Semiconductor Device Physics Greg Parker, 2004-09-30 Introduction to Semiconductor Device Physics is a popular and established text that offers a thorough introduction to the underlying physics of semiconductor devices It begins with a review of basic solid state physics then goes on to describe the properties of semiconductors including energy bands the concept of effective mass carrier concentr

Semiconductor-device Electronics R. M. Warner, B. L. Grung, 1991 This clear student oriented text is for upper level or graduate courses covering basic semiconductor physics physical descriptions of PN junction diodes bipolar junction transistors and MOS Field effect transistors The organization is from specific to more general topics with a foundations chapter that reviews critical concepts such as Poisson s Equation dielectric relaxation and displacement current The text progresses toward detailed and often unique coverage including SPICE modeling of the junction diode the BJT and MOSFET ohmic contact application of the high low junction and MOS capacitance crossover

Physics of Semiconductor Devices Simon M. Sze, Kwok K. Ng, 2006-12-13 The Third Edition of the standard textbook and reference in the field of semiconductor devices This classic book has set the standard for advanced study and reference in the semiconductor device field Now completely updated and reorganized to reflect the tremendous advances in device concepts and performance this Third Edition remains the most detailed and exhaustive single source of information on the most important semiconductor devices It gives readers immediate access to detailed descriptions of the underlying physics and performance characteristics of all

major bipolar field effect microwave photonic and sensor devices Designed for graduate textbook adoptions and reference needs this new edition includes A complete update of the latest developments New devices such as three dimensional MOSFETs MODFETs resonant tunneling diodes semiconductor sensors quantum cascade lasers single electron transistors real space transfer devices and more Materials completely reorganized Problem sets at the end of each chapter All figures reproduced at the highest quality Physics of Semiconductor Devices Third Edition offers engineers research scientists faculty and students a practical basis for understanding the most important devices in use today and for evaluating future device performance and limitations A Solutions Manual is available from the editorial department

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

Semiconductor Devices, 2nd Edition John Sparkes, 1994-07-28 Since its inception the Tutorial Guides in Electronic Engineering series has met with great success among both instructors and students Designed for first and second year undergraduate courses each text provides a concise list of objectives at the beginning of every chapter key definitions and formulas highlighted in margin notes and references to other texts in the series Semiconductor Devices begins with a review of the necessary basic background in semiconductor materials and what semiconductor devices are expected to do that is their typical applications Then the author explains in order of increasing complexity the main semiconductor devices in use today beginning with p n junctions in their various forms and ending with integrated circuits In doing so he presents both the band model and the bond model of semiconductors since neither one on its own can account for all device behavior The final chapter introduces more recently developed technologies particularly the use of compound instead of silicon semiconductors and the improvement in device performance these materials make possible True to the Tutorial Guides in Electronic Engineering series standards Semiconductor Devices offers a clear presentation a multitude of illustrations and fully worked examples supported by end of chapter exercises and suggestions for further reading This book provides an ideal introduction to the fundamental theoretical principles underlying the operation of semiconductor devices and to their simple and effective mathematical modelling

Physics of Semiconductor Devices J.-P. Colinge, C.A. Colinge, 2005-10-03 Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner

Semiconductor Devices S. M. Sze, 1991 A collection of 141 important papers on semiconductor devices covering a period of 100 years from the earliest systematic investigation of metal semiconductor contacts in 1874 to the first observation of the resonant tunneling in 1974 The papers are divided into four parts bipolar unipolar microwave and photonic devices with a commentary for each part to highlight the importance of each of the papers Acidic paper Annotation copyrighted by Book News Inc Portland OR

Semiconductor Device Reliability A. Christou, B.A. Unger, 2012-12-06 This publication is a compilation of papers presented at the Semiconductor Device Reliability Workshop sponsored by the NATO International Scientific Exchange Program The Workshop was held in Crete Greece from June 4 to June 9 1989 The objective of the Workshop was to review and to further explore advances in the field of semiconductor reliability through invited paper presentations and discussions The technical emphasis was on quality assurance and reliability of optoelectronic and high speed semiconductor

devices The primary support for the meeting was provided by the Scientific Affairs Division of NATO We are indebted to NATO for their support and to Dr Craig Sinclair who admin isters this program The chapters of this book follow the format and order of the sessions of the meeting Thirty six papers were presented and discussed during the five day Workshop In addi tion two panel sessions were held with audience participation where the particularly controversial topics of bum in and reliability modeling and prediction methods were dis cussed A brief review of these sessions is presented in this book

Semiconductor Power Devices Josef Lutz,Heinrich Schlangenotto,Uwe Scheuermann,Rik De Doncker,2011-01-15

Semiconductor power devices are the heart of power electronics They determine the performance of power converters and allow topologies with high efficiency Semiconductor properties pn junctions and the physical phenomena for understanding power devices are discussed in depth Working principles of state of the art power diodes thyristors MOSFETs and IGBTs are explained in detail as well as key aspects of semiconductor device production technology In practice not only the semiconductor but also the thermal and mechanical properties of packaging and interconnection technologies are essential to predict device behavior in circuits Wear and aging mechanisms are identified and reliability analyses principles are developed Unique information on destructive mechanisms including typical failure pictures allows assessment of the ruggedness of power devices Also parasitic effects such as device induced electromagnetic interference problems are addressed The book concludes with modern power electronic system integration techniques and trends

The Stationary Semiconductor Device Equations P.A. Markowich,1985-12-12 In the last two decades semiconductor device simulation has become a research area which thrives on a cooperation of physicists electrical engineers and mathe maticians In this book the static semiconductor device problem is presented and analysed from an applied mathematician s point of view I shall derive the device equations as obtained for the first time by Van Roosbroeck in 1950 from physical principles present a mathematical analysis discuss their numerical solu tion by discretisation techniques and report on selected device simulation runs To me personally the most fascinating aspect of mathematical device analysis is that an interplay of abstract mathematics perturbation theory numerical analysis and device physics is prompting the design and development of new technology I very much hope to convey to the reader the importance of applied mathematics for technological progress Each chapter of this book is designed to be as selfcontained as possible however the mathematical analysis of the device problem requires tools which cannot be presented completely here Those readers who are not interested in the mathemati cal methodology and rigor can extract the desired information by simply ignoring details and proofs of theorems Also at the beginning of each chapter I refer to textbooks which introduce the interested reader to the required mathematical concepts

Analysis and Simulation of Semiconductor Devices S. Selberherr,2012-12-06 The invention of semiconductor devices is a fairly recent one considering classical time scales in human life The bipolar transistor was announced in 1947 and the MOS transistor in a practically usable manner was demonstrated in 1960 From these beginnings the semiconductor device

field has grown rapidly The first integrated circuits which contained just a few devices became commercially available in the early 1960s Immediately thereafter an evolution has taken place so that today less than 25 years later the manufacture of integrated circuits with over 400 000 devices per single chip is possible Coincident with the growth in semiconductor device development the literature concerning semiconductor device and technology issues has literally exploded In the last decade about 50 000 papers have been published on these subjects The advent of so called Very Large Scale Integration VLSI has certainly revealed the need for a better understanding of basic device behavior The miniaturization of the single transistor which is the major prerequisite for VLSI nearly led to a breakdown of the classical models of semiconductor devices

Semiconductor Device Physics and Design Umesh Mishra,Jasprit Singh,2007-11-06 Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges It begins with coverage of basic physics concepts including the physics behind polar heterostructures and strained heterostructures The book then details the important devices ranging from p n diodes to bipolar and field effect devices By relating device design to device performance and then relating device needs to system use the student can see how device design works in the real world *Index of Specifications and Standards* ,2005

Semiconductor Devices S. M. Sze,1985-05-14 This book is an introduction to the physical principles of modern semiconductor devices and their advanced fabrication technology It begins with a brief historical review of major devices and key technologies and is then divided into three sections semiconductor material properties physics of semiconductor devices and processing technology to fabricate these semiconductor devices Publisher s description **Official Gazette of the United States Patent and Trademark Office** ,1985 **Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I July 2005** , **Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III November 2005** , **Department Of Defense Index of Specifications and Standards Numerical Canceled Listing Part IV July 2005** ,

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