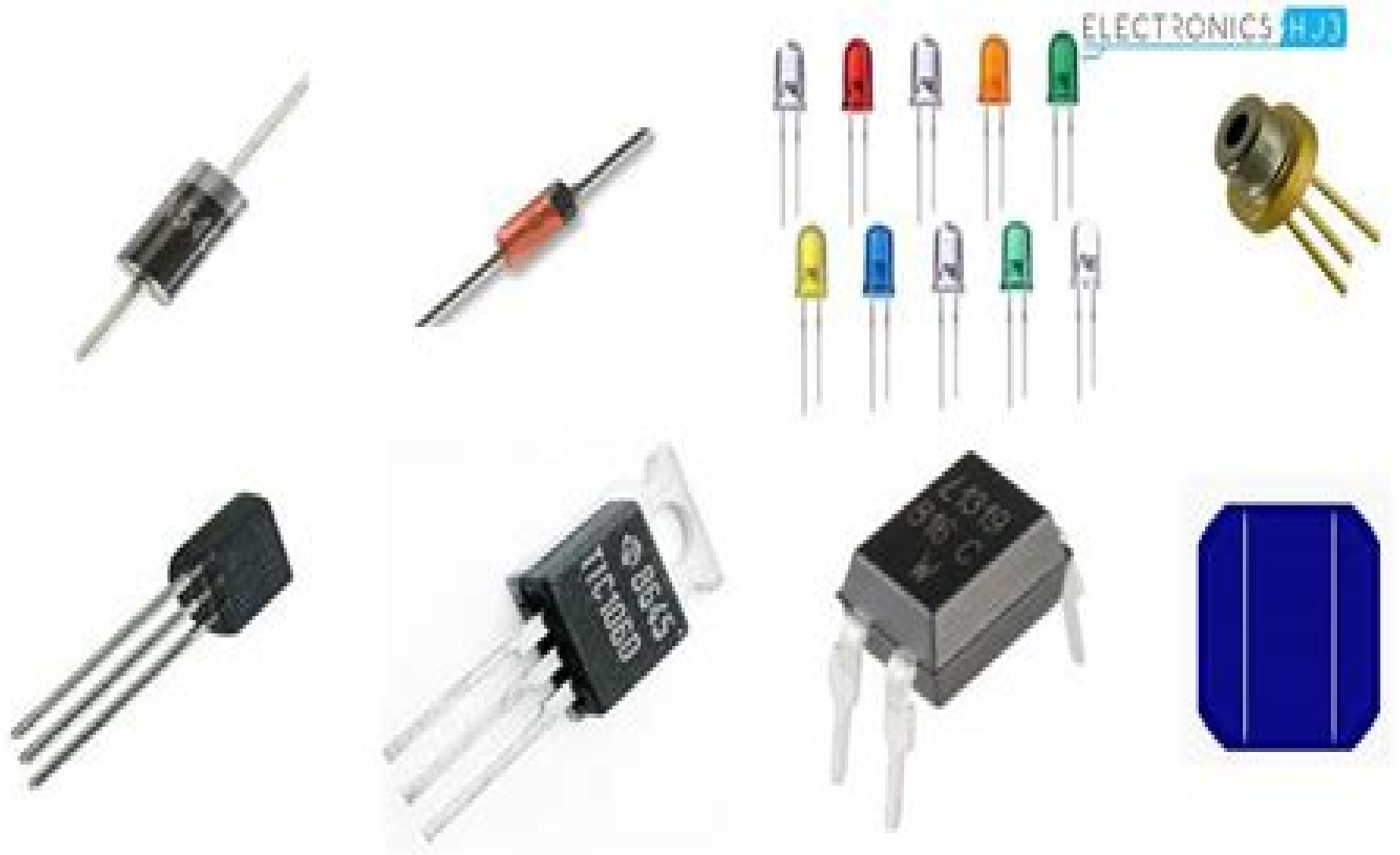


# Types of Semiconductor Devices



# Semiconductor Devices And Integrated Electronics

**H. Craig Casey**



## **Semiconductor Devices And Integrated Electronics:**

Semiconductor Devices and Integrated Electronics A. G. Milnes, 2012-12-06 For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications. Such topics are covered in specialized monographs numbering many hundreds but the voluminous nature of this literature limits access for students. This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior year level. The educational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has introduced the concepts of rectification, amplification, oscillators, modulation and logic and switching circuits. The book should also be of value to professional engineers and physicists because of both the information included and the detailed guide to the literature given by the references. The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers may develop themes that are of most interest to students and themselves. Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels, frequency, speed, size and cost are discussed. The text also briefly mentions how devices are used and presents circuits and comments on representative applications. Thus the book seeks a balance between the extremes of device physics and circuit design. *Semiconductor Devices and Integrated Electronics* Arthur George Milnes, 1980

Modern Semiconductor Devices for Integrated Circuits Chenming Hu, 2010 For courses in semiconductor devices. Prepare your students for the semiconductor device technologies of today and tomorrow. *Modern Semiconductor Devices for Integrated Circuits* First Edition introduces students to the world of modern semiconductor devices with an emphasis on integrated circuit applications. Written by an experienced teacher, researcher and expert in industry practices, this succinct and forward looking text is appropriate for both undergraduate and graduate students and serves as a suitable reference text for practicing engineers.

Devices for Integrated Circuits H. Craig Casey, 1998-12-14 This book develops the device physics of the Si and III-V compound semiconductor devices used in integrated circuits. Important equations are derived from basic physical concepts. The physics of these devices are related to the parameters used in SPICE. Terminology is intended to prepare students for reading technical journals on semiconductor devices. This text is suitable for first year graduate students and seniors in Electrical Engineering, graduate students in Material Science and Chemical Engineering interested in semiconductor materials, Computer Science students interested in custom VLSI design and professionals in the semiconductor industry. Electronic Devices And Integrated Circuits, 2006 This book intended as a first text for the students of electronics emphasizes the basic working principles and operations of semiconductor devices and teaches the reader how to analyze and design electronic circuits using various devices. *Handbook of Semiconductor Electronics* Lloyd P. Hunter, 1970 Electronics textbook on methods and techniques for designing semiconductor circuits covers technical

aspects the effects of different types of transistors the technology of semiconductor materials design measurement techniques etc Diagrams graphs illustrations references and statistical tables **Integrated Circuits and Semiconductor Devices** Gordon J. Deboo, Clifford N. Burrous, 1971 Modern Semiconductor Devices for Integrated Circuits, 2009-09

Transistors Mikhail Efimovich Levinshtein, G. Simin, 1998 This new book by M Levinshtein and G Simin tells the readers about the design and work of the most important and most interesting semiconductor devices the transistors The book is written in a friendly and easy to read manner and is meant primarily for young people high school students freshmen and sophomores However the original approach to semiconductor physics makes this book attractive to physics teachers and professors as well The book consists of 3 parts Part I The section on semiconductors describes the main properties of semiconductors explains the difference between the semiconductors metals and dielectrics We find here the explanation of the appearance of those wonderful properties of semiconductors which underlie their numerous applications This part also contains a vivid and detailed description of the main types of motion of the charge carriers in semiconductors thermal motion motion in the electric field and diffusion Part II covers Barriers and Junctions In order to understand the principles of the work of the most important semiconductor devices it is not sufficient just to get to know the properties of semiconductors It is also quite essential to study certain specific and interesting phenomena the so called junctions This part of the book contains a detailed and vivid description of those properties and in that view of the properties of the p n junctions and diodes photodiodes varicaps light emitting diodes solar cells and rectifier diodes Part III covers Transistors It describes the basis of the work of the Bipolar and Field Effect Transistors Without making use of rather complicated equations or notions of quantum mechanics the authors give a clear and simple explanation of the cause of ability of those devices to amplify and generate electric signals They tell the readers how transistors are manufactured and describe the work of the transistor s simplest circuits The last chapter of the book is devoted to the ideas underlying the transistors integrated circuits It is these integrated circuits which are the foundation of modern electronics from telephone apparatus to supercomputers from medical instruments to cosmic communication systems In conclusion the authors make an attempt to foresee and imagine together with the reader what other devices may come to substitute the transistor in the future **Electronic Devices and**

**Integrated Circuits:** Singh, B. P., Singh, Rekha, 2006 Electronic Devices and Integrated Circuits written for the students of electronics emphasizes the basic working principles and operations of semiconductor devices and teaches the reader how to analyze and design electronic circuits using various devices The book features circuits using diodes explained in detail with constant current source and constant voltage source regions FET MOSFET Dual Gate MOSFET CMOS MESFET DVCVS DVCCS biasing of discrete BJTs and ICs and two terminal devices **Modeling and Design of Semiconductor Devices**

**and Integrated Circuits for High-temperature Electronics** Cemal Tamer Dikmen, 1994 **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

**Compound Semiconductor Integrated Circuits** Tho T Vu, 2003-04-02 This is the book version of a special issue of the International Journal of High Speed Electronics and Systems reviewing recent work in the field of compound semiconductor integrated circuits There are fourteen invited papers covering a wide range of applications frequencies and materials These papers deal with digital analog microwave and millimeter wave technologies devices and integrated circuits for wireline fiber optic lightwave transmissions and wireless radio frequency microwave and millimeter wave communications In each case the market is young and experiencing rapid growth for both commercial and military applications Many new semiconductor technologies compete for these new markets leading to an alphabet soup of semiconductor materials described in these papers The book also includes three papers focused on radiation effects and reliability in III V semiconductor electronics which are useful for reference and future directions Moreover reliability is covered in several papers separately for certain process technologies

Integrated Circuits and Semiconductor Devices Gordon J. Deboo, Clifford N. Burrous, 1977-01-01 Device Electronics for Integrated Circuits Richard S. Muller, Theodore I. Kamins, 2002-10-28 Focusing specifically on silicon devices the Third Edition of Device Electronics for Integrated Circuits takes students in integrated circuits courses from fundamental physics to detailed device operation Because the book focuses primarily on silicon devices each topic can include more depth and extensive worked examples and practice problems ensure that students understand the details

**Transistors: From Crystals To Integrated Circuits** Michael E Levinshtein, Grigory S Simin, 1998-11-23 This new book by M Levinshtein and G Simin tells the readers about the design and work of the most important and most interesting semiconductor devices the transistors The book is written in a friendly and easy to read manner and is meant primarily for young people high school students freshmen and sophomores However the original approach to semiconductor physics makes this book attractive to physics teachers and professors as well The book consists of 3 parts Part I The section on semiconductors describes the main properties of semiconductors explains the difference between the semiconductors metals and dielectrics We find here the explanation of the appearance of those wonderful properties of semiconductors which underlie their numerous applications This part also contains a vivid and detailed description of the main types of motion of the charge carriers in semiconductors thermal motion motion in the electric field and diffusion Part II covers Barriers and Junctions In order to understand the principles of the work of the most important semiconductor devices it is not sufficient just to get to know the properties of

semiconductors It is also quite essential to study certain specific and interesting phenomena the so called junctions This part of the book contains a detailed and vivid description of those properties and in that view of the properties of the p n junctions and diodes photodiodes varicaps light emitting diodes solar cells and rectifier diodes Part III covers Transistors It describes the basis of the work of the Bipolar and Field Effect Transistors Without making use of rather complicated equations or notions of quantum mechanics the authors give a clear and simple explanation of the cause of ability of those devices to amplify and generate electric signals They tell the readers how transistors are manufactured and describe the work of the transistor s simplest circuits The last chapter of the book is devoted to the ideas underlying the transistors integrated circuits It is these integrated circuits which are the foundation of modern electronics from telephone apparatus to supercomputers from medical instruments to cosmic communication systems In conclusion the authors make an attempt to foresee and imagine together with the reader what other devices may come to substitute the transistor in the future Integrated Circuits and Semiconductor Devices ,1977 Microelectronics, I. ,1981 Invention of Integrated Circuits Arjun N. Saxena,2009 This book is the first to give an authoritative and comprehensive account of the invention of Integrated Circuits ICs from an insider who had participated and contributed from the beginning of their invention and advancement to the Ultra Large Scale ICs ULSICs of today It reads like a mystery novel to engross the reader but it is not based on fiction it gives documented facts of the invention of ICs analyzes the patents and highlights additional details and clarifications of their history **Official Gazette of the United States Patent and Trademark Office** ,2004

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