



Solid State Components

D. V. Morgan, M. J. Howes



Solid State Components:

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

Essentials of Solid State Electronics Rodney B. Faber, 1985 This up to date text in solid state electronic devices and circuits features concise treatment of discrete components and more detailed coverage of integrated circuits with emphasis on current linear ICs and real applications It concludes with a brief introduction to communications electronics The pedagogy includes chapter previews summaries numerous problems and examples and functional second colour

SOLID STATE DEVICES NAIR, B. SOMANATHAN, DEEPA, S. R., 2018-11-01 Designed as a text for undergraduate students of engineering in Electrical Electronics and Computer Science and IT disciplines as well as undergraduate students B Sc of physics and electronics as also for postgraduate students of physics and electronics this compact and accessible text endeavours to simplify the theory of solid state devices so that even an average student will be able to understand the concepts with ease The authors Prof Somanathan Nair and Prof S R Deepa with their rich and long experience in teaching the subject provide a detailed discussion of such topics as crystal structures of semiconductor materials Miller indices energy band theory of solids energy level diagrams and mass action law Besides they give a masterly analysis of topics such as direct and indirect gap materials Fermi Dirac statistics electrons in semiconductors Hall effect PN junction diodes Zener and avalanche breakdowns Schottky barrier diodes bipolar junction transistors MOS field effect transistors Early effect Shockley diodes SCRs TRIAC and IGBTs In the Second Edition two new chapters on opto electronic devices and electro optic devices have been added The text has been thoroughly revised and updated A number of solved problems and objective type questions have been included to help students develop grasp of the contents This fully illustrated and well organized text should prove invaluable to students pursuing various courses in engineering and physics

DISTINGUISHING FEATURES Discusses the concepts in an easy to understand style Furnishes over 300 clear cut diagrams

to illustrate the discussed Gives a very large number of questions short answer fill in the blanks tick the correct answer and review questions to sharpen the minds of the reader Provides more than 200 fully solved numerical problems Gives answers to a large number of exercises

Power Control with Solid-state Devices Irving M. Gottlieb,1987 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

Solid-state Devices: Analysis and Application William David Cooper,1974

Solid State Devices and Technology Babu V Suresh,2010-09

Solid State Electronic Devices (2nd Edition) D. K. Bhattacharya,Rajnish Sharma (Semiconductor scientist),2013

Microwave Solid State Devices and Applications D. V. Morgan,M. J. Howes,1980 Extended versions of the lectures from the 6th IEE Microwave Summer School held at Bodington Hall University of Leeds July 1980

Solid State Devices and Circuits Abhishek Yadav,2008

Solid-State Devices and Applications Rhys Lewis,2013-10-22 Solid State Devices and Applications is an introduction to the solid state theory and its devices and applications The book also presents a summary of all major solid state devices available their theory manufacture and main applications The text is divided into three sections The first part deals with the semiconductor theory and discusses the fundamentals of semiconductors the kinds of diodes and techniques in their manufacture the types and modes of operation of bipolar transistors and the basic principles of unipolar transistors and their difference with bipolar transistors The second part talks about the kinds of integrated circuits and their future developments amplifiers including their fundamentals and different types and the principles and categories of oscillators The third part discusses the applications of solid state devices transistor parameters and equivalent circuits and the fundamentals and applications of Boolean algebra The book is a good read for technicians and students who are about to enter or are currently in their final stages of their course as well as those who have recently finished and would like to have their knowledge refreshed

Scientific and Technical Aerospace Reports ,1968

Solid State Devices Irving Tepper,1972

Solid State Devices B. Somanathan Nair,S.R. Deepa,2020-11-30

Modern Dictionary of Electronics Rudolf F. Graf,1999-08-11 Included in this fully revised classic are well over 28 000 terms phrases acronyms and abbreviations from the ever expanding worlds of consumer electronics optics microelectronics computers communications and medical electronics From the basic elements of theory to the most cutting edge circuit technology this book explains it all in both words and pictures For easy reference the author has provided definitions for standard abbreviations and equations as well as tables of SI International System of Units units measurements and schematic symbolsModern Dictionary of Electronics is the bible of technology reference for readers around the world Now fully updated by the original author this essential comprehensive reference book should be in the library of every engineer technician technical writer hobbyist and student

Solid-State Electronic Devices Beniamino Cipriani,2016-01-26 This book provides a modern and concise treatment of the solid state electronic devices that are fundamental to electronic systems and information technology Solid state electronic devices are those circuits or devices built completely from solid materials and

in which the electrons or other charge carriers are kept entirely within the solid material The term is often used to contrast with the earlier technologies of vacuum and gas discharge tube devices and it is also conventional to exclude electro mechanical devices from the term solid state While solid state can include crystalline polycrystalline and amorphous solids and refer to electrical conductors insulators and semiconductors the building material is most often a crystalline semiconductor The main devices that comprise semiconductor integrated circuits are covered in a clear manner accessible to the wide range of scientific engineering disciplines that are impacted by this technology This book can expect to derive a solid foundation for understanding modern electronic devices and also be prepared for future developments and advancements in this far reaching area of science and technology It presents basic and state of the art topics on materials physics device physics and basic circuit building blocks which will be useful to researchers as well as practicing engineers

General Metallurgy Heinrich Oscar Hofman,1913 **Fiftieth Anniversary, 1912-1962** Institute of Radio Engineers,1962 Mineragraphy and Ore-deposition Rudolf Willem van der Veen,1925 **United States Navy Occupational Handbook** United States. Bureau of Naval Personnel,1968 **An Advanced Course of Instruction in Chemical Principles** Arthur Amos Noyes,Miles Standish Sherrill,1922

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