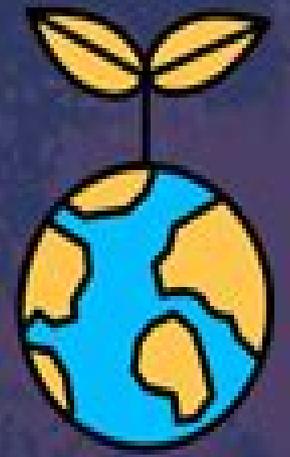


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# Solid State Devices

**Michael Rajnik**



## **Solid State Devices:**

**Fundamentals Of Solid State Electronics** Chih Tang Sah,1991-10-30 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 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

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

Solid-State Electronic Devices Christo Papadopoulos,2013-11-19 A modern and concise treatment of the solid state

electronic devices that are fundamental to electronic systems and information technology is provided in this book The main devices that comprise semiconductor integrated circuits are covered in a clear manner accessible to the wide range of scientific and engineering disciplines that are impacted by this technology Catering to a wider audience is becoming increasingly important as the field of electronic materials and devices becomes more interdisciplinary with applications in biology chemistry and electro mechanical devices to name a few becoming more prevalent Updated and state of the art advancements are included along with emerging trends in electronic devices and their applications In addition an appendix containing the relevant physical background will be included to assist readers from different disciplines and provide a review for those more familiar with the area Readers of 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

**Solid State Devices and Technology** Babu V Suresh,2010-09 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 ,1975 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 Electronics Devices (For MAKAUT), 3rd Edition** Bandyopadhyay, Jyoti Prasad, Devices has been written for the undergraduate students of Electronics and Electrical Engineering The book caters to introductory and advance courses on Solid State Devices It is student friendly and written for those who like to understand the subject from a physical perspective Even teachers and researchers will benefit immensely from this book This thoughtfully organized book provides intense knowledge of the subject with the help of lucid descriptions of theories and solved examples and covers the syllabus of most of the colleges under WBUT **Summary of Part I, Solid State Devices** ,1950 **Microwave Solid-state Devices** Samuel Y. Liao,1985 Solid State Devices and Systems Gary J. Rockis,2012-01-01 Solid State Devices and Systems 4th Edition presents a comprehensive overview of solid state devices and circuitry This new edition is designed for electricians students and technicians who have a basic understanding of electricity Component and circuit construction operation installation and troubleshooting are emphasized and supported by detailed illustrations Various practical applications are presented throughout the book as they relate to temperature light speed and pressure control Electron current flow is used throughout the book Electron current flow is based on electron flow from negative to positive *Solid State Devices* Irving Tepper,1972 Solid State Devices Donard De Cogan,1987 **Solid State Electronic Devices** Ben G. Streetman,1989 **Solid State Devices** ,1970 Introduction to Solid State Devices Lemuel Ibbotson,1996-11-29 In this book the author provides a readily accessible uncomplicated account of how some semiconductor devices work and why they are designed as they are Assuming only the most rudimentary understanding of electronic circuits it is truly

introductory illustrating the general principles underlying the whole range of devices and systems Self assessment tests are liberally distributed throughout to allow the reader to gauge their understanding of the material as they work through and exercises are given at the end of each chapter with full solutions provided for all The author s easy to read style results in a text that will prove invaluable to all requiring an insight into the theory of semiconductors that will be essential for more advanced studies

*Scientific and Technical Aerospace Reports* ,1971

*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

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