

DAN
DASCĂLU

ELECTRONIC PROCESSES IN UNIPOLAR SOLID-STATE DEVICES

1994

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DASCĂLU

**ELECTRONIC PROCESSES
IN UNIPOLAR
SOLID-STATE
DEVICES**

EDITED AND REVISED
BY
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Electronic Processes In Unipolar Solid State Devices

Daniel F McAuley



Electronic Processes In Unipolar Solid State Devices:

Electronic Processes in Unipolar Solid-state Devices Dan Dascălu, 1977

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.

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.

Solid State Devices and Electronics , Electron Technology, 1990

Advanced Electrical and Electronics Materials K. M. Gupta, Nishu Gupta, 2015-02-23 This comprehensive and unique book is intended to cover the vast and fast growing field of electrical and electronic materials and their engineering in accordance with modern developments. Basic and prerequisite information has been included for easy transition to more complex topics. Latest developments in various fields of materials and their sciences, engineering, processing and applications have been included. Latest topics like PLZT, vacuum as insulator, fiber optics, high temperature superconductors, smart materials, ferromagnetic semiconductors etc are covered. Illustrations and examples encompass different engineering disciplines such as robotics, electrical, mechanical, electronics, instrumentation and control, computer and their interdisciplinary branches. A variety of materials ranging from iridium to garnets, microelectronics, microalloys to memory devices, left-handed materials, advanced and futuristic materials are described in detail.

Electronic Process in Unipolar Solid-state Devices Dan

Dascălu,1976 Thin Films by Chemical Vapour Deposition C. E. Moroşanu,1990 **Solid State Physics, Solid State Device And Electronics.** C M Kachhava,2003 This Book Is Designed To Cater The Need Of Students Of B Sc Pass And Hons Students Of Various Indian Universities On The Basis Of Model Curriculum Recently Proposed By Cdc Of Ugc The Book Comprises 569 Figures 266 Examples 233 Problems And 336 Objective Questions Distributed In 13 Chapters Each Problem Is Followed By Its Answer The Inclusion Of A Large Number Of Problems And Review Questions Are Aimed At Evaluating The Degree Of Conceptual Comprehension A Student Has Acquired As A Result Of Studying The Book The Solved Examples Are Targetted To Illustrate The Theoretical Ideals Described In The Text Although The Book Is Aimed To Target B Sc Students Yet Chemists Material Scientists And Electrical Engineers Would Find It Useful Not Only In Persuing Their Studies But Also In Professional Applications The Existence Of Sufficient Number Of Objective Questions Are Framed To Help The Student Immensely To Encounter Competitive Examinations Like Net Slet Ics And State Civil Services Basic Electronics Sambunath Biswas, This is an age of Electronics At the dawn of the new millenium it is no denying the fact that electronics has influenced the lifestyles of mankind in a manner never seen before In order to understand the fundamentals of electronics basic electronics is now taught as a compulsory subject for students of all branches of engineering This book is planned to meet the requirements of a good and up to date book on basic electronics The book discusses in a clear and concise way the fundamental principles and applications of basic electronics The readers should find the book interesting particularly with large number of objective questions solved problems and exercise problems National Union Catalog ,1978 Includes entries for maps and atlases **Bookseller and the Stationery Trades' Journal** ,1978 **Diffusion and Defect Data** ,1994 **Frequency Conversion and ncise in Millimeter-wave Transzit-tixe devices** R.O. Grondin,1983 **GaAs MESFET Circuit Design** Robert Soares,1988 **The Publishers' Trade List Annual** ,1984 **Lexikon der Elektronik** Otger Neufang,2013-03-12 *Springer Handbook of Semiconductor Devices* Massimo Rudan,Rossella Brunetti,Susanna Reggiani,2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook s chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e g bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other

chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook *Library of Congress Catalogs* Library of Congress,1980 **Circuit Design on Plastic Foils** Daniele Raiteri,Eugenio Cantatore,Arthur van Roermund,2014-12-03 This book illustrates a variety of circuit designs on plastic foils and provides all the information needed to undertake successful designs in large area electronics The authors demonstrate architectural circuit layout and device solutions and explain the reasons and the creative process behind each Readers will learn how to keep under control large area technologies and achieve robust reliable circuit designs that can face the challenges imposed by low cost low temperature high throughput manufacturing

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Electronic Processes In Unipolar Solid State Devices** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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