

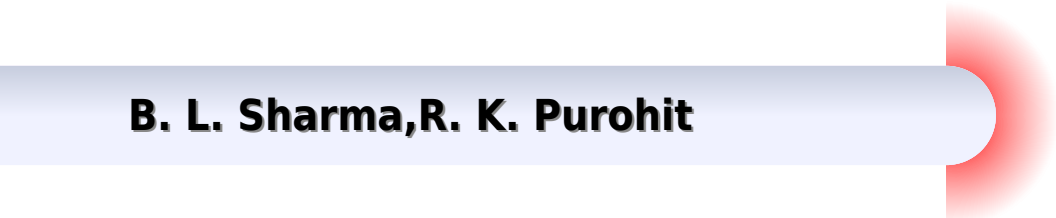
CONSTANTES SÉLECTIONNÉES
RELATIVES AUX
SEMI-CONDUCTEURS

SELECTED CONSTANTS
RELATIVE TO
SEMI-CONDUCTORS

TABLES DE CONSTANTES
E. L. C. P. A.

Selected Constants Relative To Semi Conductors

B. L. Sharma, R. K. Purohit



Selected Constants Relative To Semi Conductors:

Selected Constants Relative to Semi-Conductors P Aigrain, Minko Balkanski, 2013-10-02 *Selected Constants Relative to Semi Conductors* presents the physical constants of semiconductors in Table form The values of the electronic properties of semiconductors presented in the Table are parameters intended for use in theoretical and phenomenological equations relative to the band theory for these materials In addition to data specific to band structure the Table also includes mobilities of electrons and holes and their variation with temperature Data of a general physical character are also presented since the researcher very often finds use for values of this type The following quantities are given when available symmetry group and crystal parameters refractive index dielectric constant effective ionic charge work function photoemission work function piezoresistance coefficient elastic coefficients phonon temperature Debye temperature magnetic susceptibility coefficient of linear expansion fusion temperature sublimation temperature specific heat at constant pressure latent heat of fusion latent heat of sublimation thermal conductivity disorder factor and density

Selected Semiconductor Circuits Transistor Applications, Inc, 1960 Annotated Accession List of Data Compilations of the Office of Standard Reference Data National Measurement Laboratory (U.S.). Office of Standard Reference Data, Herman M. Weisman, Gertrude B. Sherwood, 1970

NBS Technical Note, 1970 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

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Optical Processes in Semiconductors Jacques I. Pankove, 2012-12-19 Comprehensive text and reference covers all phenomena involving light in semiconductors emphasizing modern applications in semiconductor lasers electroluminescence photodetectors photoconductors photoemitters polarization effects absorption spectroscopy more Numerous problems 339 illustrations

Semiconductor Heterojunctions B. L. Sharma, R. K. Purohit, 2015-12-04 Semiconductor Heterojunctions investigates various aspects of semiconductor heterojunctions Topics covered include the theory of heterojunctions and their energy band profiles electrical and optoelectronic properties and methods of preparation A number of heterojunction devices are also considered from photovoltaic converters to photodiodes transistors and injection lasers Comprised of eight chapters this volume begins with an overview of the theory of heterojunctions and a discussion on abrupt isotype and anisotype heterojunctions along with graded heterojunctions The reader is then introduced to the energy band profiles of isotype and anisotype heterojunctions the practical aspects of their fabrication and characterization and their electronic and optoelectronic properties Some methods used in the preparation of heterojunctions are also described including the chemical method solution growth method alloying method and sputtering method The remaining chapters focus on the characterization of the grown layers examples of heterojunction devices and experimental work on heterojunctions This monograph is intended for research workers and graduate students

Low Temperature Electronics Edmundo A. Gutierrez-D., M. Jamal Deen, Cor L. Claeys, 2001 Summarizes the advances in cryoelectronics starting from the fundamentals in physics and semiconductor devices to electronic systems hybrid superconductor semiconductor technologies photonic devices cryocoolers and thermal management This book provides an exploration of the theory research and technologies related to cryoelectronics

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