

CONSTANTES SÉLECTIONNÉES  
RELATIVES AUX  
SEMI-CONDUCTEURS

SELECTED CONSTANTS  
RELATIVE TO  
SEMI-CONDUCTORS

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

# Selected Constants Relative To Semi Conductors

**Ming-Fu Li**



## **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

**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 [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

**Semiconductors** T. F. Connolly, 2012-12-06 And often on request from the issuing installation USAEC reports are also available from International Atomic Energy Agency Kaerntnerring A 1010 Vienna Austria National Lending Library Boston Spa England Monographs and reports of the National Bureau of Standards are for sale by Superintendent of Documents U S Government Printing Office Washington D C 20402 Theses listed as Dissertation Abstracts number are available in North and

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**NBS Technical Note** ,1970 *Optical Processes in Semiconductors* Jacques I. Pankove,1975-01-01 Based on a series of lectures at Berkeley 1968 1969 this is the first book to deal comprehensively with all of the phenomena involving light in semiconductors The author has combined for the graduate student and researcher a great variety of source material journal research and many years of experimental research adding new insights published for the first time in this book Coverage includes energy states in semiconductors and their perturbation by external parameters absorption relationships between optical constants spectroscopy radiative transitions nonradiative recombination processes in pn junctions semiconductor lasers interactions involving coherent radiation photoelectric emission photovoltaic effects polarization effects photochemical effects effect of traps on luminescence and reflective modulation The author has presented the subject in a manner which couples readily to physical intuition He introduces new techniques and concepts including nonradiative recombination effects of doping on optical properties Franz Keldysh effect in absorption and emission reflectance modulation and many others Dr Pankove emphasizes the underlying principle that can be applied to the analysis and design of a wide variety of functional devices and systems Many valuable references illustrative problems and tables are also provided here Semiconducting II-VI, IV-VI, and V-VI Compounds

N.Kh. Abrikosov,2013-12-01 **Selected Semiconductor Circuits** Transistor Applications, Inc,1960 *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

*Chemical Bonds in Solids* N. N. Sirota, 2012-12-06 The present four volumes published under the collective title of *Chemical Bonds in Solids* are the translation of the two Russian books *Chemical Bonds in Crystals* and *Chemical Bonds in Semiconductors* These contain the papers presented at the Conference on Chemical Bonds held in Minsk between May 28 and June 3 1967 together with a few other papers denoted by an asterisk which have been specially incorporated Earlier collections also published by the Nauka i Tekhnika Press of the Belorussian Academy of Sciences were entitled *Chemical Bonds in Semiconductors and Solids* 1965 and *Chemical Bonds in Semiconductors and Thermodynamics* 1966 and are available in English editions from Consultants Bureau New York published in 1967 and 1968 respectively The subject of chemical bonds in crystals including semiconductors has recently become highly topical and has attracted the interest of a wide circle of physicists chemists and engineers Until recently the most successful description of the properties of solids including semiconductors has been provided by the band theory which still dominates the physics of solids Nevertheless it is clear that the most universal approach is that based on the general theory of chemical bonds in crystals in which details of the electron distributions between atoms and of the wave functions appear quite explicitly

**Electrical Properties of Semiconductor Surfaces** Daniel R. Frankl, 1967

*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

**VLSI Science and Technology/1984** Kenneth E. Bean, George A. Rozgonyi, 1984

Quantum Electronics in Lasers and Masers D. V. Skobel'tsyn, 2013-12-11

**Insulating Films on Semiconductors** M. Schulz, G. Pensl, 2013-03-12 The INFOS 81 Conference on Insulating Films on Semiconductors was held at the University of Erlangen Nurnberg in Erlangen from 27 to 29 April 1981 This conference was a sequel to the first conference INFOS 79 held in Durham INFOS 81 attracted 170 participants from universities research institutes and industry Attendants were registered from 15 nations The biannual topical conference series will be continued by INFOS 83 to be held in Eindhoven The Netherlands in April 1983 The conference proceedings include all the invited and contributed 42 papers presented at the meeting The topics range from the basic physical understanding of the properties of insulating films and their interface to semiconductors to the discussion of stability and dielectric strength as well as growing and deposition techniques which are relevant for technical applications Strong emphasis was given to the semiconductor silicon and its native oxide however sessions on compound semiconductors and other insulating films also raised strong interest The proceedings survey the present state of our understanding of the system of insulating films on semiconductors As a new aspect of the topic the

properties of semiconductors deposited and laser processed on insulating films was included for the first time

**X-Ray Metrology in Semiconductor Manufacturing** D. Keith Bowen, Brian K. Tanner, 2018-10-03 The scales involved in modern semiconductor manufacturing and microelectronics continue to plunge downward Effective and accurate characterization of materials with thicknesses below a few nanometers can be achieved using x rays While many books are available on the theory behind x ray metrology XRM X Ray Metrology in Semiconductor Manufacturing is the first book to focus on the practical aspects of the technology and its application in device fabrication and solving new materials problems Following a general overview of the field the first section of the book is organized by application and outlines the techniques that are best suited to each The next section delves into the techniques and theory behind the applications such as specular x ray reflectivity diffraction imaging and defect mapping Finally the third section provides technological details of each technique answering questions commonly encountered in practice The authors supply real examples from the semiconductor and magnetic recording industries as well as more than 150 clearly drawn figures to illustrate the discussion They also summarize the principles and key information about each method with inset boxes found throughout the text Written by world leaders in the field X Ray Metrology in Semiconductor Manufacturing provides real solutions with a focus on accuracy repeatability and throughput

**VLSI Science and Technology**, 1984 *Selected Topics in Group IV and II-VI Semiconductors* E.H.C. Parker, Peter Rudolph, G. Müller-Vogt, Robert Triboulet, Erwin Kasper, 2012-12-02 This book contains the proceedings of two symposia which brought together crystal growers chemists and physicists from across the world The first part is concerned with silicon molecular beam epitaxy and presents an overview of the most research being done in the field Part two discusses the problems dealing with purification doping and defects of II VI materials mainly of the important semiconductors CdTe and ZnSe The focus is on materials science issues which are the key for a better understanding of these materials and for any industrial application

**CRC Handbook of Chemistry and Physics** William M. Haynes, 2016-04-19 Mirroring the growth and direction of science for a century the Handbook now in its 93rd edition continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting tables of data its usefulness spans every discipline This edition includes 17 new tables in the Analytical Chemistry section a major update of the CODATA Recommended Values of the Fundamental Physical Constants and updates to many other tables The book puts physical formulas and mathematical tables used in labs every day within easy reach The 93rd edition is the first edition to be available as an eBook

**Selected Semiconductor Research** Ming-Fu Li, 2011 This book on solid state physics has been written with an emphasis on recent developments in quantum many body physics approaches It starts by covering the classical theory of solids and electrons and describes how this classical model has failed The authors then present the quantum mechanical model of electrons in a lattice and they also discuss the theory of conductivity Extensive reviews on the topic are provided in a compact manner so that any non specialist can follow from the beginning The authors

cover the system of magnetism in a similar way and various problems in magnetic materials are discussed The book also discusses the Ising chain the Heisenberg model the Kondo effect and superconductivity amongst other relevant topics In the final chapter the authors present some works related to contemporary research topics such as quantum entanglement in many body systems and quantum simulations They also include a short review of some of the possible applications of solid state quantum information in biological systems

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