

HANDBOOK OF ELECTRONIC MATERIALS
Volume 1

Optical Materials Properties

A. J. Moses

IFI/PLENUM

Handbook Of Electronic Materials Volume 1 Optical Materials Properties

Hari Singh Nalwa



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Handbook of Electronic Materials A. Moses, 2012-12-06 This report was prepared by Hughes Aircraft Company Culver City California under Contract Number F33615 70 C 1348 The work was administered under the direction of the Air Force Materials Laboratory Air Force Systems Command Wright Patterson Air Force Base Ohio with Mr B Emrich Project Engineer The Electronic Properties Information Center EPIC is a designated Information Analysis Center of the Department of Defense authorized to provide information to the entire DOD community The purpose of the Center is to provide a highly competent source of information and data on the electronic optical and magnetic properties of materials of value to the Department of Defense Its major function is to evaluate compile and publish the experimental data from the world's unclassified literature concerned with the properties of materials All materials relevant to the field of electronics are within the scope of EPIC insulators semiconductors metals superconductors ferrites ferroelectric ferromagnetics electroluminescents thermionic emitters and optical materials The Center's scope includes information on over 100 basic properties of materials information generally regarded as being in the area of devices and or circuitry is excluded *Handbook of Infrared Optical Materials*

Paul Klocek, 2017-09-04 This book includes a comprehensive presentation of the fundamental physics of optical matter the definition of material physical properties the listing and comparison of the physical properties of infrared optical materials and the theory design and survey of infrared optical coatings **Optical Materials Properties** Alfred James Moses, 1971

Optical Materials, 1986 **Handbook of Laser Science and Technology** Marvin J. Weber, 1986-04-30 *Electronic, Magnetic, and Optical Materials* Pradeep Fulay, Jung-Kun Lee, 2016-11-18 This book integrates materials science with other engineering subjects such as physics chemistry and electrical engineering The authors discuss devices and technologies used by the electronics magnetics and photonics industries and offer a perspective on the manufacturing technologies used in device fabrication The new addition includes chapters on optical properties and devices and addresses nanoscale phenomena and nanoscience a subject that has made significant progress in the past decade regarding the fabrication of various materials and devices with nanometer scale features *Handbook of Advanced Electronic and Photonic Materials and Devices, Ten-Volume Set* Hari Singh Nalwa, 2000-10-09 Vol 1 Semiconductors Vol 2 Semiconductors Devices Vol 3 High Tc Superconductors and Organic Conductors Vol 4 Ferroelectrics and Dielectrics Vol 5 Chalcogenide Glasses and Sol Gel Materials Vol 6 Nanostructured Materials Vol 7 Liquid Crystals Display and Laser Materials Vol 8 Conducting Polymers Vol 9 Nonlinear Optical Materials Volume 10 Light Emitting Diodes Lithium Batteries and Polymer Devices Laser Induced Damage in Optical Materials: 1983 Harold Earl Bennett, 1985 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

Laser Induced Damage in Optical Materials, 1983, 1985 *Laser Induced Damage in Optical Materials*, 1985 *Laser Induced Damages in Optical Materials: 1983*, **Laser Induced Damage in Optical Materials:** Arthur H. Guenther, 1977

NBS Special Publication, 1968 **Linear Electrooptic Modular Materials** J. T. Milek, 2013-03-14 This survey of 13 electrooptic materials includes both a review and compilation of all materials properties relevant to their use in linear Pockels electrooptic modulator applications Information on actual electrooptic modulator design as well as applications for these materials and data on materials exhibiting a quadratic Kerr electrooptic effect are not included With these restrictions in mind every attempt was made to be as comprehensive as possible by utilizing all available sources of literature books periodicals reports and vendor literature The files of the Electronic Properties Information Center and full resources of the Hughes Aircraft Company Library were searched for pertinent data and approximately 1000 articles were reviewed for this publication A brief Introduction to the survey is followed by a description of the Principles of Electrooptic Modulation emphasizing the importance of crystal symmetry on the electrooptic properties of materials and including the relationships between the electrooptic piezoelectric elastooptic and piezoelectric effects in crystals The survey consists of 13 independent sections each section covering the properties of one material crystallographic optical electrooptic photoelastic piezoelectric dielectric and thermal References appearing in the text are listed at the conclusion of each section Tables and Figures are numbered separately for each section v TABLE OF CONTENTS INTRODUCTION 1 PRINCIPLES OF ELECTROOPTIC MODULATION 5 AMMONIUM DIHYDROGEN ARSENATE ADA 15 AMMONIUM DIHYDROGEN PHOSPHATE ADP

Optical Performance Evaluation of Infrared Transmitting Materials (LQ-10 High Power Laser Window Program) Bernard Bendow, Peter D. Gianino, 1972 A nonuniform laser beam traversing a material sample undergoes thermal lensing that is distortion and defocusing due to thermally induced changes in refractive index and bulging of sample faces Vector Kirchhoff diffraction theory is applied to provide a detailed picture of the transmitted beam properties in the presence of lensing In

particular the time evolution of the focal properties and the intensity degradation are investigated Four distinct characteristic time regimes are identified for rating solids ultrasmall small transitional and steady state The calculations account for birefringence due to thermally induced stress which is shown to play a major role in the alkali halides The optical performance of transmitting materials in various time regimes is evaluated for Gaussian beams incident on thin circular samples Detailed quantitative ratings are presented for a wide range of transmitting materials at 10.6 micrometers Author Modified Abstract *Optical Properties of Condensed Matter and Applications* Jai Singh, 2006-10-02 Following a semi

quantitative approach this book presents a summary of the basic concepts with examples and applications and reviews recent developments in the study of optical properties of condensed matter systems Key Features Covers basic knowledge as well as application topics Includes theory experimental techniques and current and developing applications Timely and useful contribution to the literature Written by internationally respected contributors working in physics and electrical engineering departments and government laboratories Lens Design Milton Laikin, 2018-10-03 There is no shortage of lens optimization software on the market to deal with today's complex optical systems for all sorts of custom and standardized applications But all of these software packages share one critical flaw you still have to design a starting solution Continuing the bestselling tradition of the author's previous books *Lens Design* Fourth Edition is still the most complete and reliable guide for detailed design information and procedures for a wide range of optical systems Milton Laikin draws on his varied and extensive experience ranging from innovative cinematographic and special effects optical systems to infrared and underwater lens systems to cover a vast range of special purpose optical systems and their detailed design and analysis This edition has been updated to replace obsolete glass types and now includes several new designs and sections on stabilized systems the human eye spectrographic systems and diffractive systems A new CD ROM accompanies this edition offering extensive lens prescription data and executable ZEMAX files corresponding to figures in the text Filled with sage advice and completely illustrated *Lens Design* Fourth Edition supplies hands on guidance for the initial design and final optimization for a plethora of commercial consumer and specialized optical systems **III-V Ternary Semiconducting Compounds-Data Tables** M.

Neuberger, 2013-03-09 Gallium Aluminum Antimony System Gallium Aluminum Arsenic System Gallium Aluminum Phosphorous System Gallium Arsenic Antimony System Gallium Arsenic Phosphorous System Gallium Indium Antimony System Gallium Indium Arsenic System Gallium Indium Phosphorous System Indium Arsenic Antimony System Indium Arsenic Phosphorous System **III-V Semiconducting Compounds** M. Neuberger, 2013-03-09 The Electronic Properties Information Center has developed the Data Table as a precis of the most reliable information available for the physical crystallographic mechanical thermal electronic magnetic and optical properties of a given material Data Tables serve as an introduction to the graphic data compilations on the material published by the Electronic Properties Information Center EPIC as Data Sheets Although the Data Sheets are principally concerned according to the scope of the Center with electronic and

optical data it is believed that data covering the complete property spectrum is of the first importance to every scientist and engineer whatever his information requirements The enthusiastic reception of these Data Tables has confirmed this opinion and increasing requests for this highly selective type of information has resulted in these III V Semiconductor Compounds Data Tables The major problem in this type of selective data compilation on a semiconducting material lies in the material purity Properties may vary so widely with doping crystallinity defects geometric forms and the other parameters of preparation that any attempts at comparison normally fail On this basis we have consistently attempted to give values derived from experiments on the highest purity single crystals or epitaxial films At the very least these data should be reproducible and this gives the data their principal validity If such values however are not available then the next best data are reported together with material specifications These latter include the carrier concentration and the dopant

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