

# Handbook of Optical Constants of Solids

Edited by  
**EDWARD D. PALIK**

# Handbook Of Optical Constants Of Solids

**Tao Wei**



## **Handbook Of Optical Constants Of Solids:**

Handbook of Optical Constants of Solids Edward D. Palik, 1998 This set of five volumes four volumes edited by Edward D Palik and a volume by Gorachand Ghosh is a unique resource for any science and technology library It provides materials researchers and optical device designers with reference facts in a context not available anywhere else The singular functionality of the set derives from the unique format for the three core volumes that comprise the Handbook of Optical Constants of Solids The Handbook satisfies several essential needs first it affords the most comprehensive database of the refractive index and extinction or loss coefficient of technically important and scientifically interesting dielectrics This data has been critically selected and evaluated by authorities on each material Second the dielectric constant database is supplemented by tutorial chapters covering the basics of dielectric theory and reviews of experimental techniques for each wavelength region and material characteristic As an additional resource two of the tutorial chapters summarize the relevant characteristics of each of the materials in the database The data in the core volumes have been collected and analyzed over a period of twelve years with the most recent completed in 1997 The volumes systematically define the dielectric properties of 143 of the most engaging materials including metals semiconductors and insulators Together the three Palik books contain nearly 3 000 pages with about 2 3 devoted to the dielectric constant data The tutorial chapters in the remaining 1 3 of the pages contain a wealth of information including some dielectric data Hence the separate volume Index to Handbook of Optical Constants of Solids which is included as part of the set substantially enhances the utility of the Handbook and in essence joins all the Palik volumes into one unit It is then of great importance to users of the set A final volume rounds out the set The Handbook of Thermo Optic Coefficients of Optical Materials with Applications collects refractive index measurements and their temperature dependence for a large number of crystals and glasses Mathematical models represent these data and in turn are used in the design of nonlinear optical devices Unique source of extremely useful optical data for a very broad community of scientists researchers and practitioners Will be of great practical applicability to both industry and research Presents optical constants for a broadest spectral range for a very large number of materials Paliks three volumes include 143 materials including 43 elements Ghosh's volume includes some 70 technologically interesting crystals and many commercial glasses Includes a special index volume that enables the user to search for the information in the three Palik volumes easily and quickly Critique chapters in the Palik volumes discuss the data and give reference to most of the literature available for each material Presents various techniques for measuring the optical constants and mathematical models for analytical calculations of some data Handbook of Optical Constants of Solids Edward D. Palik, 1998

Handbook of Optical Constants of Solids Edward D. Palik, 2012-12-02 While bits and pieces of the index of refraction  $n$  and extinction coefficient  $k$  for a given material can be found in several handbooks the Handbook of Optical Constants of Solids gives for the first time a single set of  $n$  and  $k$  values over the broadest spectral range ideally from x ray to mm wave

region The critiquers have chosen the numbers for you based on their own broad experience in the study of optical properties Whether you need one number at one wavelength or many numbers at many wavelengths what is available in the literature is condensed down into a single set of numbers Contributors have decided the best values for  $n$  and  $k$  References in each critique allow the reader to go back to the original data to examine and understand where the values have come from Allows the reader to determine if any data in a spectral region needs to be filled in Gives a wide and detailed view of experimental techniques for measuring the optical constants  $n$  and  $k$  Incorporates and describes crystal structure space group symmetry unit cell dimensions number of optic and acoustic modes frequencies of optic modes the irreducible representation band gap plasma frequency and static dielectric constant

**Handbook of Optical Constants of Solids** Edward D. Palik, 1991-04-04 This handbook a sequel to the widely used Handbook of Optical Constants of Solids contains critical reviews and tabulated values of indexes of refraction  $n$  and extinction coefficients  $k$  for almost 50 materials that were not covered in the original handbook For each material the best known  $n$  and  $k$  values have been carefully tabulated from the x ray to millimeter wave region of the spectrum by expert optical scientists In addition the handbook features thirteen introductory chapters that discuss the determination of  $n$  and  $k$  by various techniques Contributors have decided the best values for  $n$  and  $k$  References in each critique allow the reader to go back to the original data to examine and understand where the values have come from Allows the reader to determine if any data in a spectral region needs to be filled in Gives a wide and detailed view of experimental techniques for measuring the optical constants  $n$  and  $k$  Incorporates and describes crystal structure space group symmetry unit cell dimensions number of optic and acoustic modes frequencies of optic modes the irreducible representation band gap plasma frequency and static dielectric constant

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dielectric constant database is supplemented by tutorial chapters covering the basics of dielectric theory and reviews of experimental techniques for each wavelength region and material characteristic. As an additional resource, two of the tutorial chapters summarize the relevant characteristics of each of the materials in the database. The data in the core volumes have been collected and analyzed over a period of twelve years, with the most recent completed in 1997. The volumes systematically define the dielectric properties of 143 of the most engaging materials, including metals, semiconductors, and insulators. Together, the three Palik books contain nearly 3,000 pages, with about 2/3 devoted to the dielectric constant data. The tutorial chapters in the remaining 1/3 of the pages contain a wealth of information, including some dielectric data. Hence, the separate volume *Index to Handbook of Optical Constants of Solids*, which is included as part of the set, substantially enhances the utility of the Handbook and, in essence, joins all the Palik volumes into one unit. It is then of great importance to users of the set. A final volume rounds out the set: *The Handbook of Thermo-Optic Coefficients of Optical Materials with Applications*, which collects refractive index measurements and their temperature dependence for a large number of crystals and glasses. Mathematical models represent these data and, in turn, are used in the design of nonlinear optical devices. Unique source of extremely useful optical data for a very broad community of scientists, researchers, and practitioners. Will be of great practical applicability to both industry and research. Presents optical constants for a broadest spectral range for a very large number of materials. Palik's three volumes include 143 materials, including 43 elements. Ghosh's volume includes some 70 technologically interesting crystals and many commercial glasses. Includes a special index volume that enables the user to search for the information in the three Palik volumes easily and quickly. Critique chapters in the Palik volumes discuss the data and give reference to most of the literature available for each material. Presents various techniques for measuring the optical constants and mathematical models for analytical calculations of some data.

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This volume in the Handbook of Optical Constants of Solids is the first and only book to provide comprehensive coverage of refractive index and thermo-optic coefficients. It contains the refractive indexes and thermo-optic coefficients for nonlinear crystals, semiconductors, optical glasses, and fiber glasses. The Sellmeier coefficients of two physically meaningful Sellmeier equations are evaluated and are used to calculate these values throughout the normal transmission region of these optical materials. The author has also included analysis and explanations for some temperature-dependent optical devices/systems. Presents the optical constants for over 70 technologically interesting crystals and commercial glasses. Details various techniques for measuring the optical constants and mathematical models for analytical calculations of some data. Includes thermo-optic coefficients that are necessary to calculate the refractive index of the optical material at any operating temperature. Describes how all optical devices, both temperature-dependent and independent, can be explained satisfactorily by using the two Sellmeier equations.

Handbook of Optical Constants of Solids, Volumes I, II, and III Edward J. Prucha, 1998      Handbook of Optics, Third

Edition Volume IV: Optical Properties of Materials, Nonlinear Optics, Quantum Optics (set) Michael Bass, Casimer DeCusatis, Jay M. Enoch, Vasudevan Lakshminarayanan, Guifang Li, Carolyn MacDonald, Virendra N. Mahajan, Eric Van Stryland, 2009-10-06 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world's most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume IV covers optical properties of materials nonlinear optics and quantum optics

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web the table in this section shows the standard names of modern recorders in f and c and their respective ranges music composed after the modern revival of the recorder most frequently uses soprano alto tenor and bass recorders although sopranino and great bass are also fairly common

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