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### Optical constants

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This book presents data on the optical constants of crystalline and amorphous semiconductors. A complete set of the optical constants are presented in this book. They are: the complex dielectric constant ( $\epsilon = \epsilon' + i\epsilon''$ ), complex refractive index ( $n^* = n + ik$ ), absorption coefficient

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( $\alpha$ ), and normal-incidence reflectivity ( $R$ ).

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Optical Constants of Crystalline and Amorphous ...

Room-temperature optical and elastic constants of crystalline  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$  were determined using data extracted from Brillouin light scattering spectra. Refractive indices at a wavelength of 532 nm obtained from bulk peak linewidth versus frequency shift ratios range from 1:8  $n_2:0$  for

Optical and Elastic Constants of Crystalline  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$  ...

These discrepancies in index and extinction coefficient, also implicit to the optical penetration depth and dielectric function derived from the optical constants, are attributed to a reduction in surface mode frequencies and increased optical absorption due to the presence of surface roughness.

[2010.05938] Optical and Elastic Constants of Crystalline ...

Optical constants of crystalline and amorphous semiconductors by Sadao Adachi, August 31, 1999, Springer edition, Hardcover in English - 1 edition

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This book presents data on the optical constants of crystalline and amorphous semiconductors. A complete set of the optical constants are presented in this book. They are: the complex dielectric constant ( $\epsilon = \epsilon' + i\epsilon''$ ), complex refractive index ( $n^* = n + ik$ ), absorption coefficient ( $\alpha$ ), and normal-incidence reflectivity ( $R$ ).

Optical Constants of Crystalline and Amorphous Semiconductors

Optical Constants of Crystalline and Amorphous Semiconductors: Numerical Data and Graphical Information: Adachi, Sadao: Amazon.sg: Books

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This completes the derivation of optical constants  $k(\omega)$  and  $n(\omega)$  for amorphous semiconductors and dielectrics, Eqs. 20 and 32;  $k(\omega)$  and  $n(\omega)$  for crystalline semiconductors and dielectrics, Eqs. 21 and 35; and  $k(\omega)$  and  $n(\omega)$  for metals, Eqs. 22 and 36. In the

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next section, we discuss the practical applications of these equations.

Calculation of Optical Constants,  $n$  and  $k$ , in the ...

The optical constants of an isotropic material are the index of refraction  $n$  and the extinction coefficient  $k$ . They are respectively the real and imaginary components of the complex index of refraction. They can be measured at a given wavelength by direct methods or inferred from the photometric or polarimetric measurements.

Handbook of Optical Constants of Solids | ScienceDirect

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[(Optical Constants of Crystalline and Amorphous ...

$$n(E) = n(\infty) + \frac{(B_0 E + C_0)}{E^2 - BE + C}$$
The five parameters  $A$ ,  $B$ ,  $C$ ,  $E_g$ , and  $n(\infty)$  each have physical significance.  $E_g$  is the optical energy band gap of the material.  $A$ ,  $B$ , and  $C$  depend on the band structure of the material.

Refractive index and extinction coefficient of thin film ...

The ability to apply force and torque directly to micro- and nanoscale particles in optical traps has a wide range of applications. While full control of both force and torque in three dimensions has been realized using top-down fabrication of rod-shaped particles composed of birefringent crystalline materials, widespread usage of such particles is limited as the optical constants of the ...

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