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Optical Constants of Amorphous and Crystalline H₂O-ice

...

Self-consistent optical constants of SiO₂ and Ta₂O₅ films have been obtained for their relevance in optical coatings from the near ultraviolet to the near infrared spectral ranges, where they are transparent and have a high refractive index contrast. Particular attention has been paid to wavelengths close to and shorter than each material cutoff.

Crystal Growth, Optical and Structural Properties of MNA

...

We provide new, uncompromised optical constants for beta- and

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alpha-SiC derived from single-crystal reflectance spectra and investigate quantitatively whether there is any difference between alpha ...

Refractive index of CRYSTALS - silicon

Figure 2: This Photograph of as grown crystal of LH-mNA Determination of Optical Constant The optical behaviors of materials are imperative to determine its applications in photonics devices. To acquaintance of optical constants of a material such as optical band gap, refractive index (n), absorption coefficient (α), excitation

Optical Constants Of Crystalline And Amorphous ...

We also include optical constants in this range for crystalline H₂O-ice at 266 K (Warren & Brandt 2008). These measurements of comparatively warm H₂O-ice are more similar in shape to our amorphous measurements than to our crystalline spectra.

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However, there are still significant differences, especially near 3 μm .

Influence of composition on optical and dispersion ...

optical constants. Reflectance measurements have been carried out for quartz by Spitzer and Kleinman,⁴ Merten,¹⁴ Onstott and Lucovsky,¹⁵ and Gervais and Piriou¹⁷ for frequencies between 300 and 2000 cm^{-1} . Chamberlain et al.⁸ and Russell and Bell¹³ studied the optical properties of crystal quartz using a third technique,

Refractive index and extinction coefficient of thin film ...

The optical constants from the mid to far infrared region are presented for the crystalline silicate particles with submicron size, i.e. olivine, forsterite, clinopyroxene and orthopyroxene particles which are considered as major constituents of interplanetary, interstellar and circumstellar dust. The olivine,

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clinoproxene and orthopyroxene are natural from Ichinomegata, Akita and have the ...

Structural, stoichiometric and optical constants of ...

Comments. 20 °C; Cystal orientation: 111> References. G. Vuye et al.. Temperature dependence of the dielectric function of silicon using in situ spectroscopic ellipsometry, Thin Solid Films 233, 166-170 (1993) Data

Handbook of Optical Constants of Solids | ScienceDirect

The 1986 publication relates to amorphous materials, while the 1988 publication relates to crystalline. Subsequently, in 1991, their work was included as a chapter in "The Handbook of Optical Constants". The Forouhi-Bloomer dispersion equations describe how photons of varying energies interact with thin films.

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OPTICAL CONSTANTS OF AMORPHOUS AND CRYSTALLINE H2O-ICE: 2 ...

optical properties of crystalline and amorphous semiconductor materials and fundamental principles By Seiichi Morimura FILE ID 1499cb Freemium Media Library Optical Properties Of Crystalline And ... optical constants of crystalline and amorphous semiconductors numerical knowledge of the optical

Optical constants of crystalline WO3 deposited by ...

Optical Constants Of Crystalline And 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 ($n^* = n + ik$),

Optical Constants of Crystalline and Amorphous ...

Optical dielectric constants are critical to modeling the electronic

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and optical properties of materials. Silver, as a noble metal with low loss, has been extensively investigated. The recently developed epitaxial growths of single crystalline Ag on dielectric substrates have prompted efforts to characterize their intrinsic optical dielectric function.

Optical Properties Of Crystalline And Amorphous ...

Using new laboratory spectra, we have calculated the real and imaginary parts of the index of refraction of amorphous and crystalline H₂O-ice from 20-150 K in the wavelength range 2.5-22 μm (4000-455 cm^{-1}) and joined these results with previous measurement from 1.25 to 2.5 μm . These optical constants improve on previous measurements by having better temperature and spectral resolution ...

Optical and Elastic Constants of Crystalline Bi Sr CaCu O

...

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Rutile is easily reduced, and the crystal can have some oxygen vacancies or titanium interstitials. It is noted that because the structure cannot be treated as a slightly perturbed cubic crystal, there are pronounced polarization effects. There are very few reports of optical constants for single-crystal TiO_2 in the ultraviolet above 20 eV.

Far-infrared ordinary-ray optical constants of quartz

The flash-evaporation method was used to deposit several thin films (1, 1.2, and 1.35 μm thick) of undoped lead iodide on glass slides held at 150°C and 200°C . Their X-ray diffraction patterns, scanning electron microscope micrographs, and energy-dispersive spectroscopy spectra revealed crystalline hexagonal 2H-polytypic structure and high stoichiometry ...

Optical constants of silica glass from extreme ultraviolet

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Non-crystalline thin films of chalcogenide $\text{Cd}_{50}\text{S}_{50-x}\text{Se}_x$ system ($30 \leq x \leq 50$) were obtained by thermal evaporation technique onto a pre-cleaned glass substrate at a vacuum of 8.2×10^{-4} Pa. The deposition rate and film thickness were kept constant at about 8 nm/s and 200 nm, respectively.

OSA | Self-consistent optical constants of SiO₂ and Ta₂O₅

Optical constants of silica glass from extreme ultraviolet to far infrared at near room temperature Rei Kitamura,¹ Laurent Pilon,^{1,*} and Miroslaw Jonasz² ¹Department of Mechanical and Aerospace Engineering, Henry Samueli School of Engineering and Applied Science, University of California, Los Angeles, Los Angeles, California 90095, USA

(PDF) Optical properties of silicon carbide for ...

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have been incorporated into our optical constant calculations. Spectra were measured and optical constants were calculated for each nitrile at a variety of temperatures, including, but not limited to, 20, 35, 50, 75, 95, and 110 K, in both the amorphous phase and the crystalline phase. This laboratory effort used a dedicated FTIR spectrometer

OSA | Optical dielectric constants of single crystalline ...

Optical and Elastic Constants of Crystalline $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ by Brillouin Light Scattering Spectroscopy B. D. E. McNiven, J. P. F. LeBlanc, and G. T. Andrews¹, ¹Department of Physics and Physical Oceanography, Memorial University of Newfoundland, St. John's, Newfoundland & Labrador, Canada A1B 3X7

The optical constants of crystalline silicate particles in ...

Crystalline WO_3-x is an infrared (IR) electrochromic material having possible applications in satellite thermal control and IR

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switches. Optical constants of electrochromic materials change upon ion intercalation, usually with H^+ or Li^+ . Of primary concern for device design are the optical constants in both the intercalated and deintercalated states.

Optical Constants Of Crystalline And

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 (α), and normal-incidence reflectivity (R).