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A waveguide method of measurement of the absorption spectra of thin films in the range of their

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transparency is considered. The absorption spectra obtained by this method for the thin films of tin oxide and zinc oxide in a wavelength range from 400 to 800 nm are presented.

*Waveguide spectroscopy of thin films* / SpringerLink

In *Waveguide Spectroscopy of Thin Films* new methods of study of the linear and nonlinear optical properties of thin films are presented. These techniques are based on the principles of the spatial Fourier spectroscopy of the light beam reflected from a prism-coupling device with the tunnel excitation of guided lightmodes in thin-film structures.

*Waveguide Spectroscopy of Thin Films, Volume 33 - 1st Edition*

sensing, etc. In this contribution, we summarize some recent development in optical waveguide spectroscopy using nanoporous thin films as the planar substrates that can guide the light just as well as bulk thin films. This is because the nanoporosity is at a

*Nanoporous thin films in optical waveguide spectroscopy ...*

Abstract Gadolinium oxide films, prepared by the sol-gel process, present waveguiding properties. Their structures were studied by waveguide Raman spectroscopy (WRS) and confirmed using transmission electron microscopy (TEM). The structural evolution of the layers with annealing temperatures from 650 up to 900°C was investigated.

*Waveguide Raman spectroscopy of sol-gel Gd<sub>2</sub>O<sub>3</sub> thin films ...*

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*Waveguide Spectroscopy of Thin Films, Volume 33 ...*

Spectroscopy with planar optical waveguides is still an active field of research for the quantitative analysis of various supramolecular surface architectures and processes, and for applications in integrated optical chip communication, direct chemical sensing, etc. In this contribution, we summarize some recent development in optical waveguide spectroscopy using nanoporous thin films as the ...

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Using a thin film of Ti metal for the anodization results in a nanotube array offering an even further enhanced inner surface and the possibility to apply electrical potentials via the resulting TiO<sub>2</sub> semiconducting waveguide structure. Nanoporous substrates fabricated from SiN<sub>x</sub> thin films by colloid lithography, or made from SiO<sub>2</sub>

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buy waveguide spectroscopy of thin films volume 33 thin films and nanostructures from kogancom in this book new methods of study of the linear and nonlinear optical properties of thin films are presented these techniques are based on the principles of the spatial fourier spectroscopy of the light beam reflected from a prism coupling device with the tunnel excitation of guided lightmodes

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Plasmon waveguide resonance is similar to surface plasmon resonance (SPR) spectroscopy, another label-free technique that has been widely used for measuring optical parameters of thin films on noble metal surfaces. 23 – 25 SPR has been employed extensively for studies of model biointerfaces, e.g., monitoring binding of soluble ligands to surface-bound receptors. 26, 27 In terms of instrumental configuration, two major types of SPR are practiced: (1) In angular mode, the shift of the ...

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