

substance: PdO

property: optical properties, dielectric constant

optical density, photoconductivity: Fig. 2

optical conductivity: Fig. 4.

photoelectron spectra: HeI, HeII, and AlK $_{\alpha}$: Fig. 1

real and imaginary parts of the **refractive index:** Fig. 3, refractive index in the visible: $n = 2.8$

static **dielectric constant:** $\epsilon(0) \approx 8$ [79N].

References:

- 78R Rey, E., Kamal, M. R., Miles, R. B., Joyce, B. S. H.: J. Mater. Sci. 13 (1978) 812.
- 79H Holl, Y., Krill, G., Amamou, A., Legare, P., Hilaire, L., Maire, G.: Solid State Commun. 32 (1979) 1189.
- 79N Nilsson, P. D., Shyaraman, M. S.: J. Phys. C 12 (1979) 1423.

Fig. 1.

PdO. Photoelectron spectra at different excitation energies (a) He I (b) He II (c) Al K_{α} monochromated to a half-width of 0.6 eV. Photoelectron intensity vs. energy relative to the Fermi level E_F [79H].

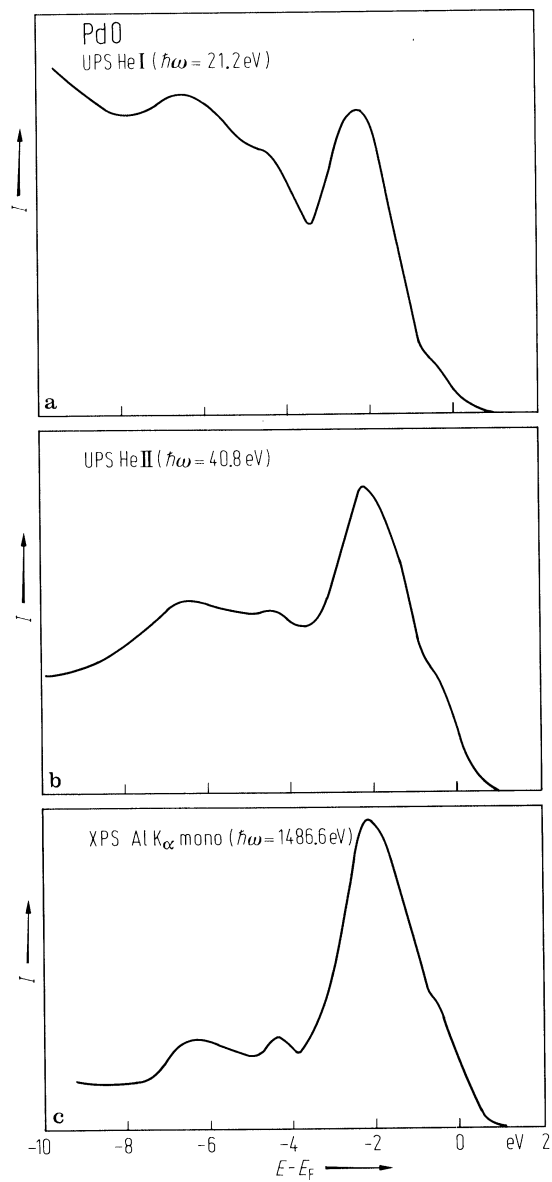


Fig. 2.

PdO. Optical density and photocurrent (squared) vs. photon energy for different film thicknesses (484 ...2181 Å; (-o-) photocurrent [78R]).

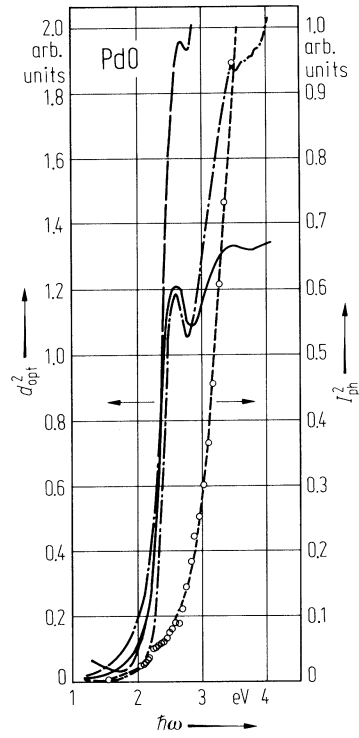


Fig. 3.

PdO. Real and imaginary parts of the refractive index vs. photon energy [79N].

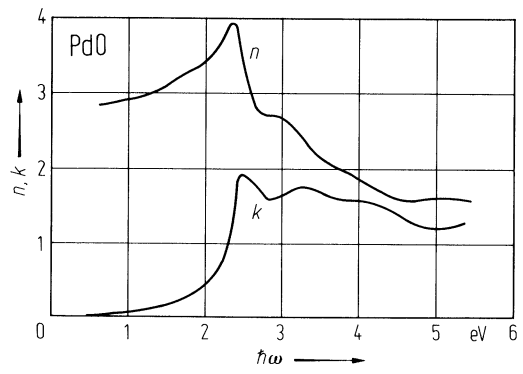


Fig. 4.

PdO. Optical conductivity defined as $\sigma_{\text{opt}} = \omega \epsilon_2(\omega)/4\pi$ vs. photon energy [79N].

