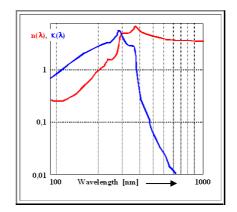
Complex Index of Refraction of Silicon and GaAs

Here is the complex index of referaction of Silicon (from Handbook of Optical Constants of Solids (E.D. Palik))



- Note that the imaginary part κ increases as soon as the wavelength is small enough for band-to-band absorption processes; i.e. h · ∨ > E_G applied (with E_G = band gap).
- Here is the dielectric function and the complex index of refraction for GaAs.
 - Note that several groups actually calculated those curves and that they match rather nicely with the measured values.

