

Homework 06 – Rev A

SPN 6–01

The density of glass is about 2500 kg/m^3 and the molecular formula is SiO_2 . Assume one electron/molecule participates in the lowest resonance and that the vacuum wavelength of that resonance is 200 nm. Calculate the Cauchy A and B coefficients for glass. Check them against some coefficients on Wikipedia or other web resources. They should be close (A will be closer than B).

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SPN 6–02

Do Griffith's 9.24.

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SPN 6–03

Do Griffith's 9.29.

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