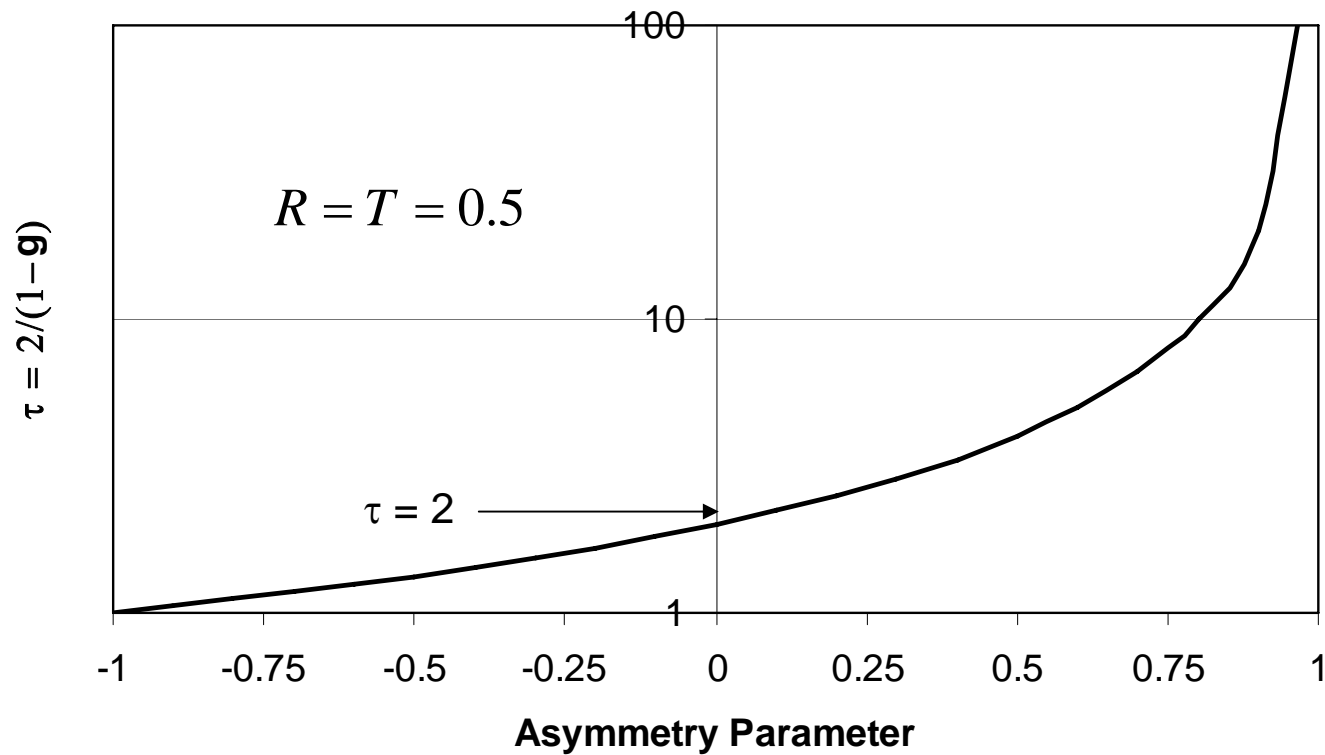


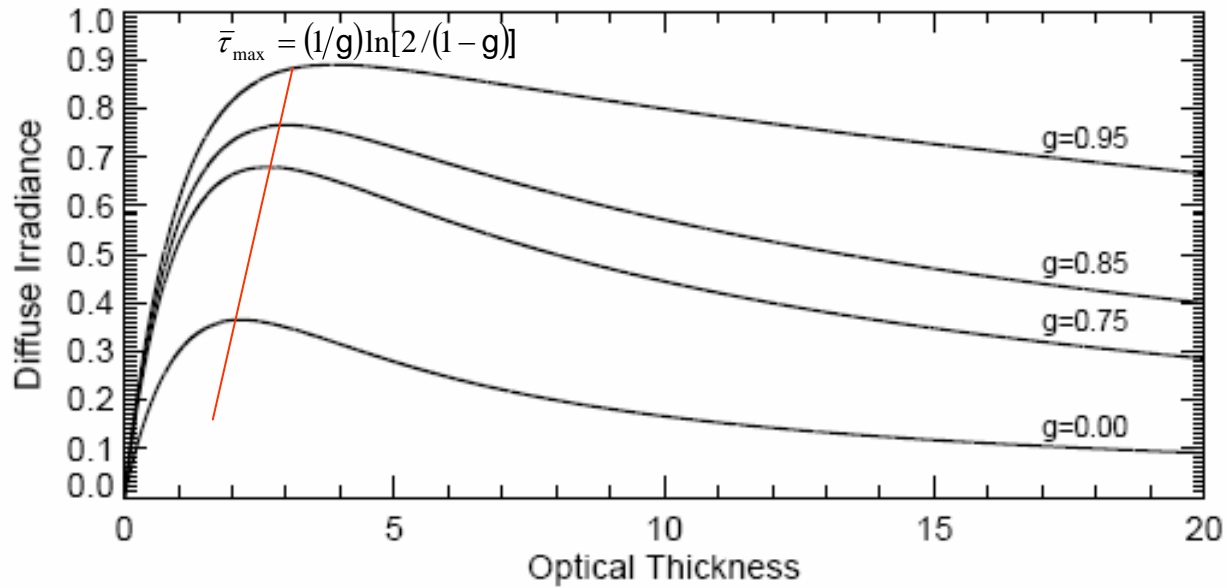
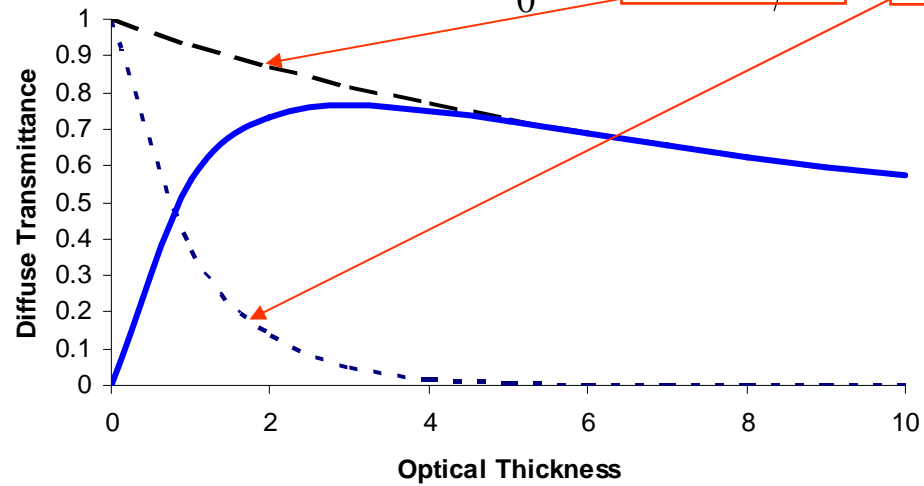
At what optical thickness does: $R = T = \frac{\bar{\tau}(1-g)/2}{1 + \bar{\tau}(1-g)/2} = \frac{1}{1 + \bar{\tau}(1-g)/2}$?

$$\bar{\tau} = 2/(1-g)$$



Diffuse Radiation

Diffuse irradiance *beneath* a cloud: $\frac{D_{\downarrow}}{F_0} = \frac{1}{1 + \bar{\tau}^*/2} \exp(-\bar{\tau})$



Darkening upon wetting

- How does angular dependence of particle scattering change with the refractive index of the medium?
 - Closer the refractive index of the medium is to that of the particle the more highly peaked the forward scattering \rightarrow larger g
- Increased forward scattering increases absorption of layer, decreases reflectance

