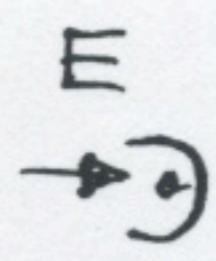
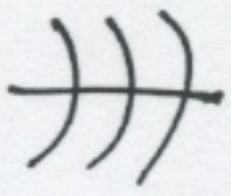
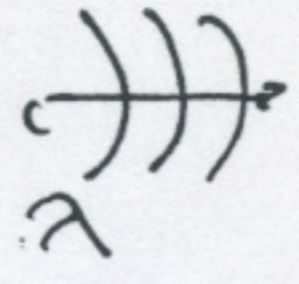


# Optics Summary

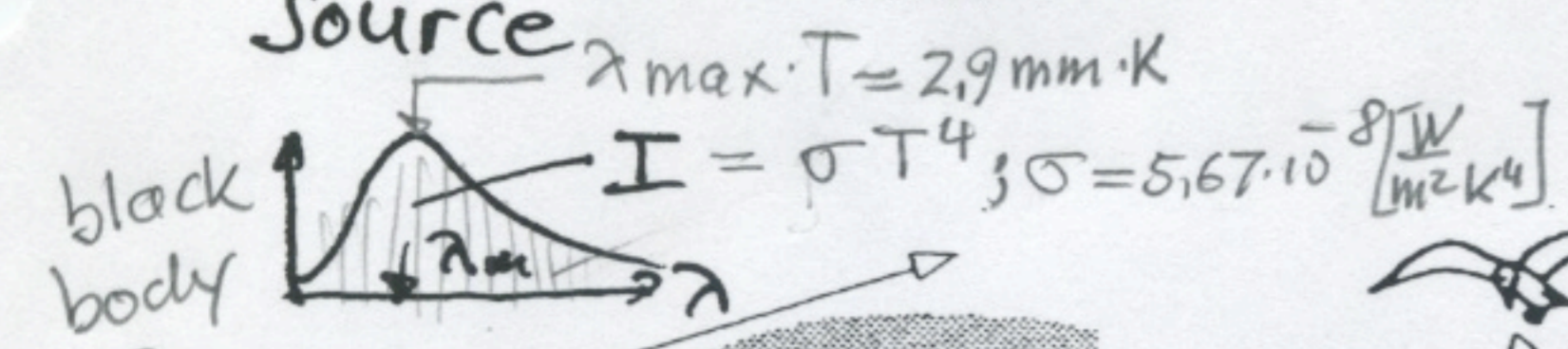
$$E = h \cdot \nu = \frac{hc}{\lambda}$$



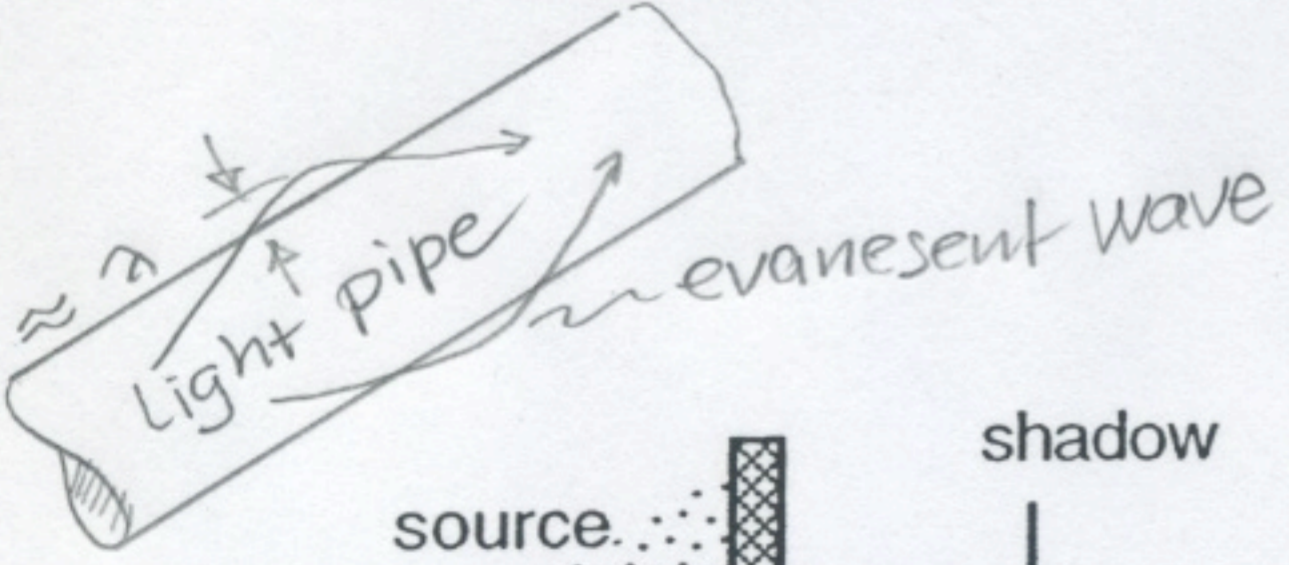
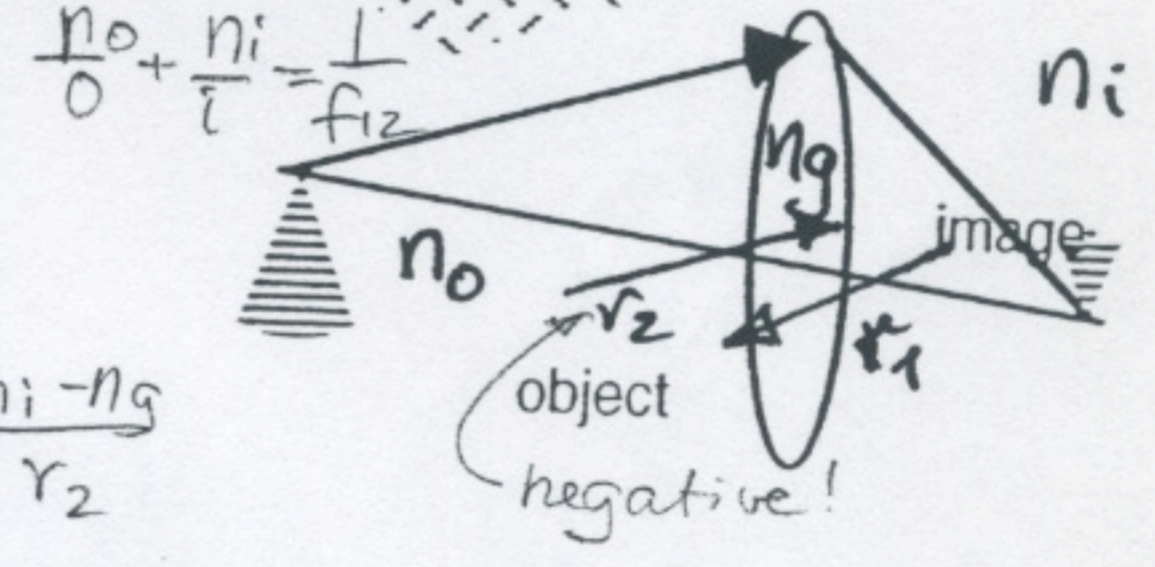
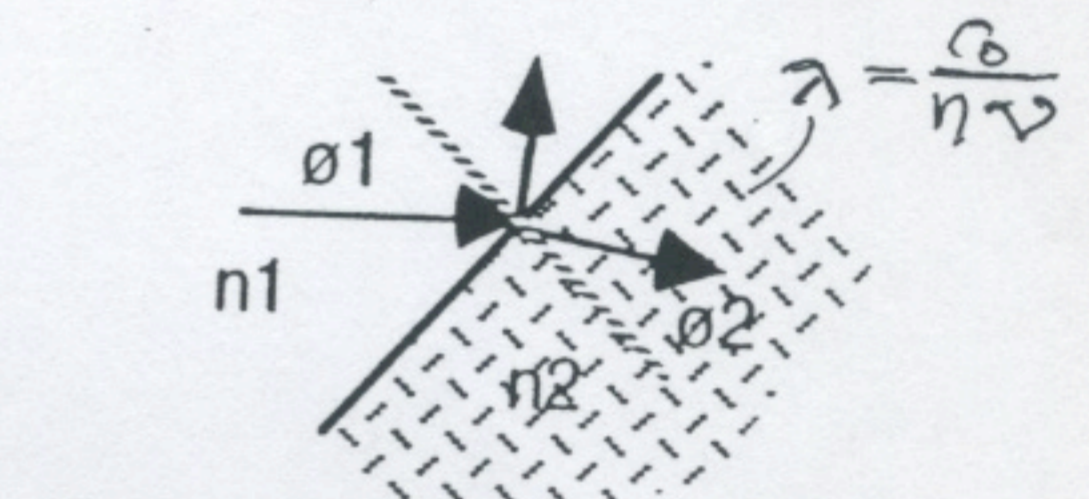
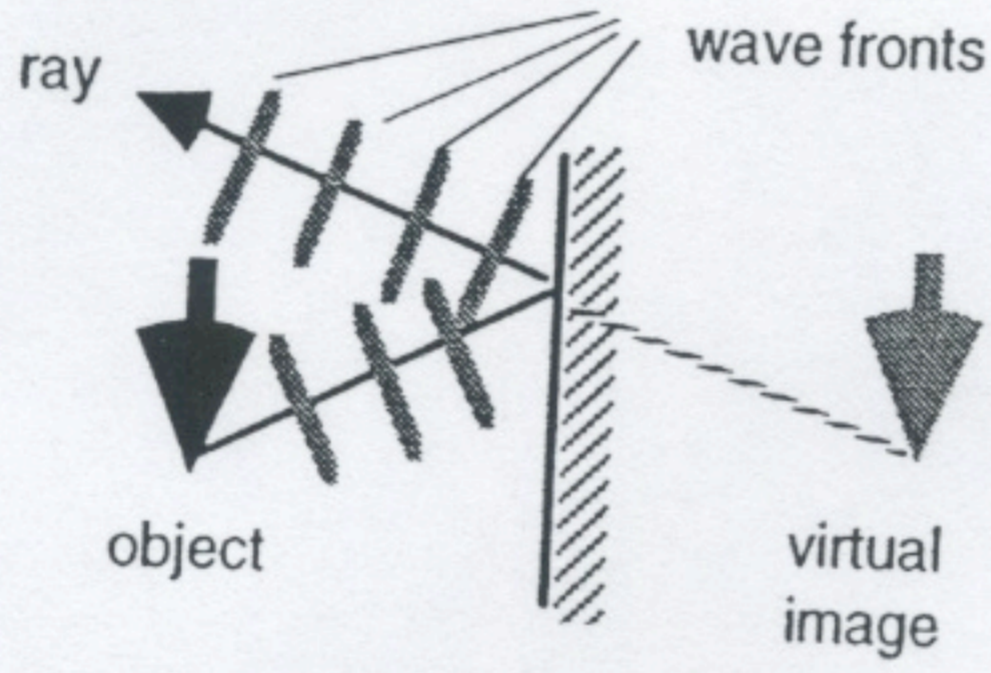
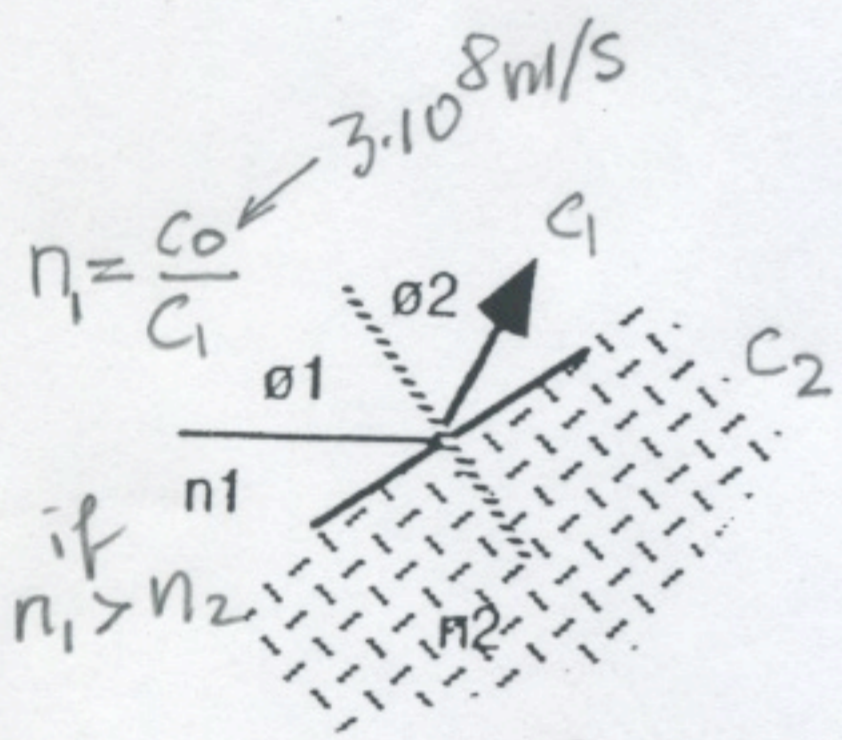
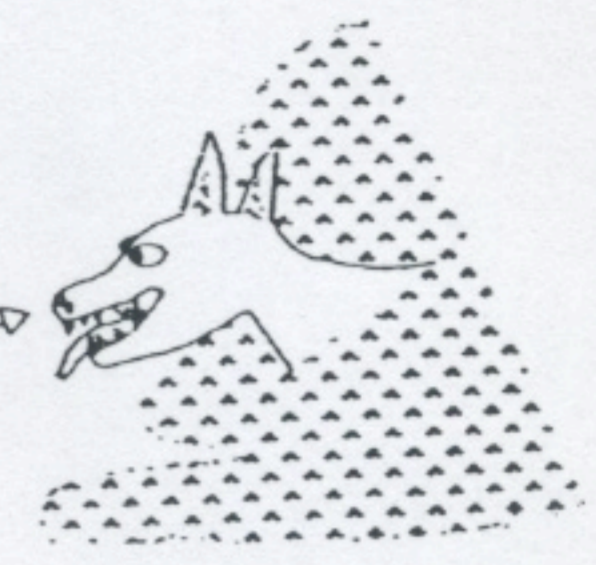
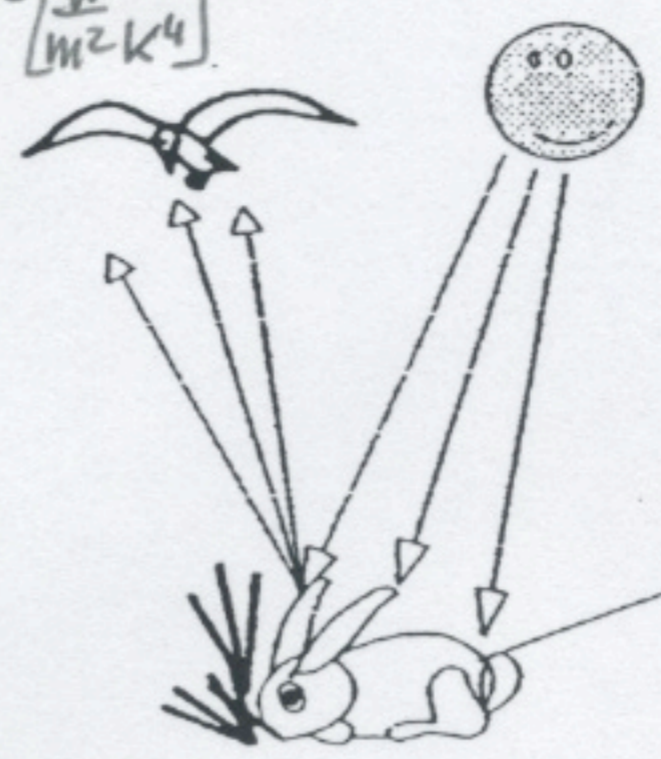
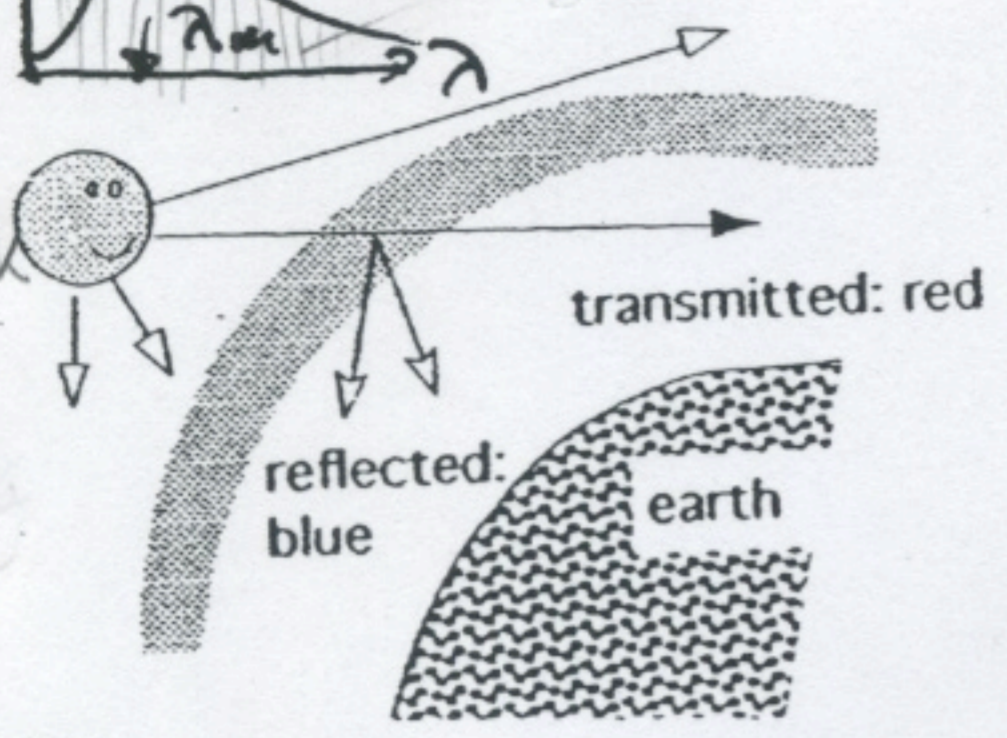
detector

Source

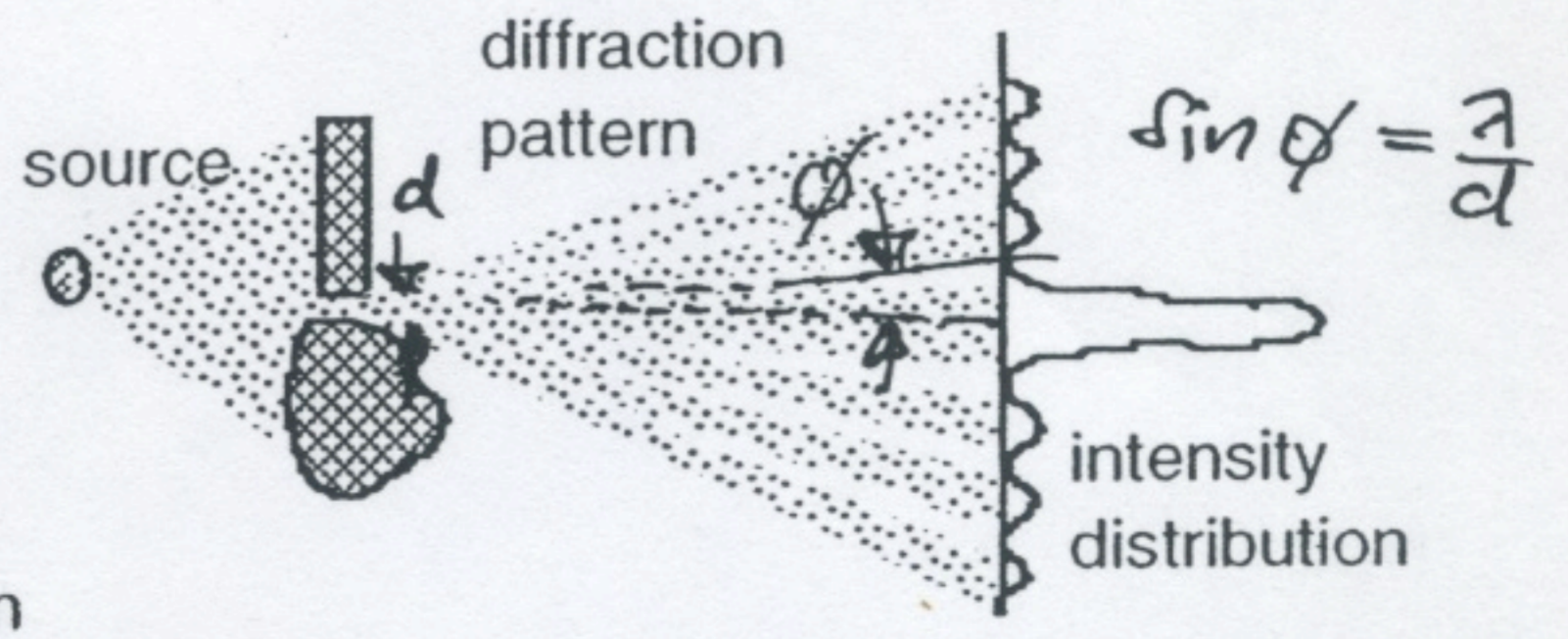
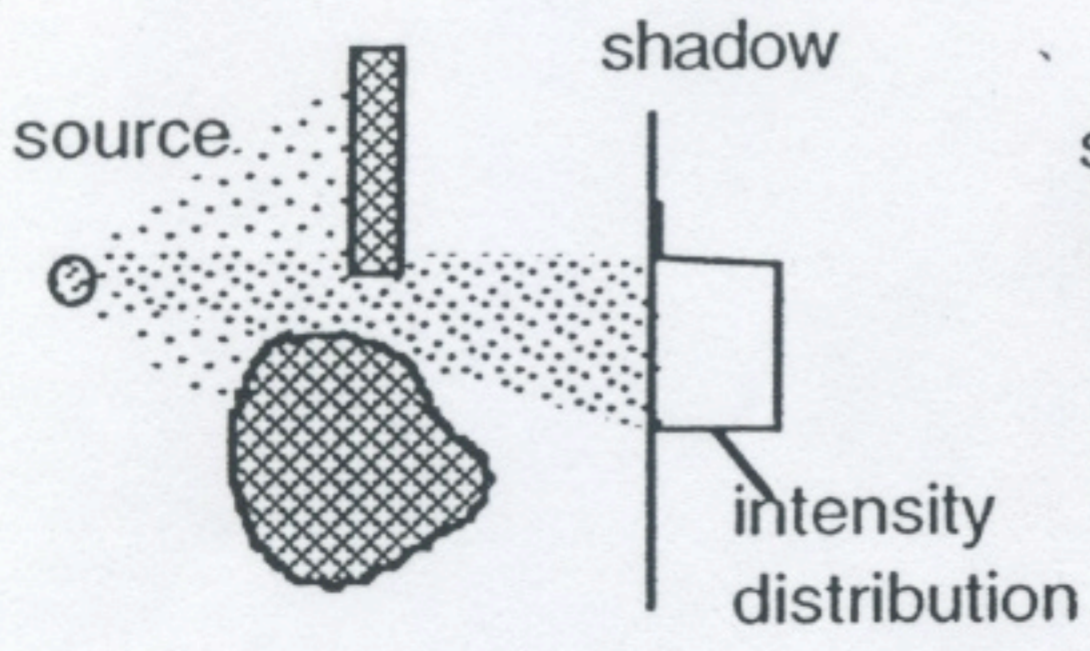
wave



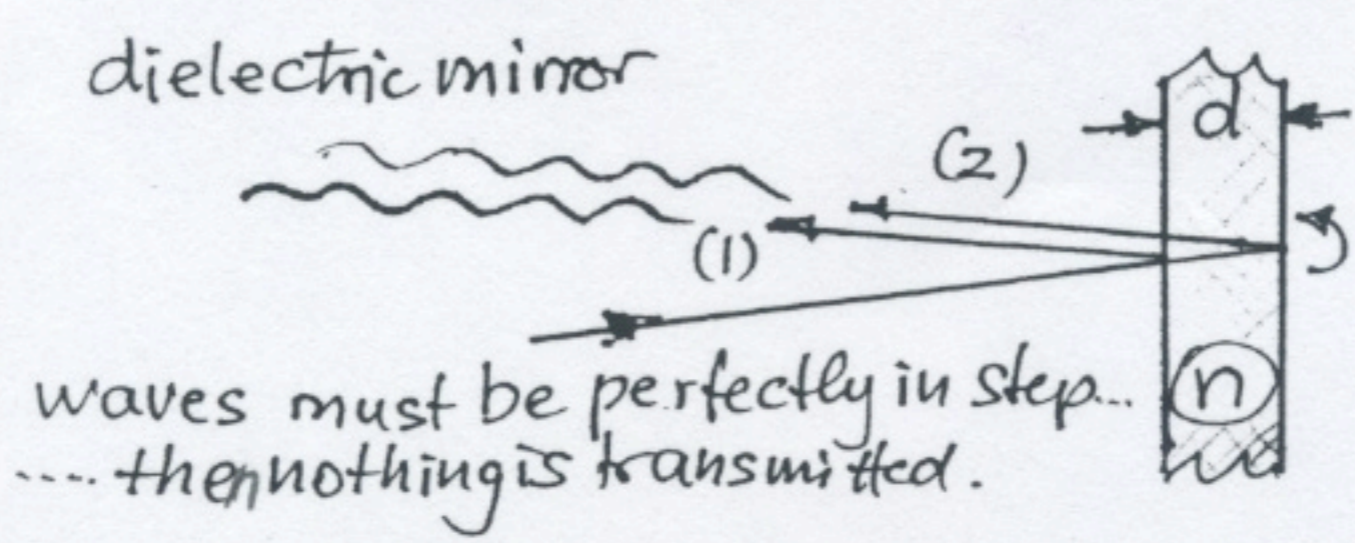
black body  
Sun  
T = 5800K



$$\frac{1}{f_{12}} = \frac{n_g - n_o}{r_1} + \frac{n_i - n_g}{r_2}$$



interference



phase difference at reflection  $\pi \leftrightarrow \frac{\lambda}{2}$

in medium  $2d = \frac{\lambda}{2}$

add:  $\left. \begin{matrix} \pi \leftrightarrow \frac{\lambda}{2} \\ 2d = \frac{\lambda}{2} \end{matrix} \right\} = \lambda$