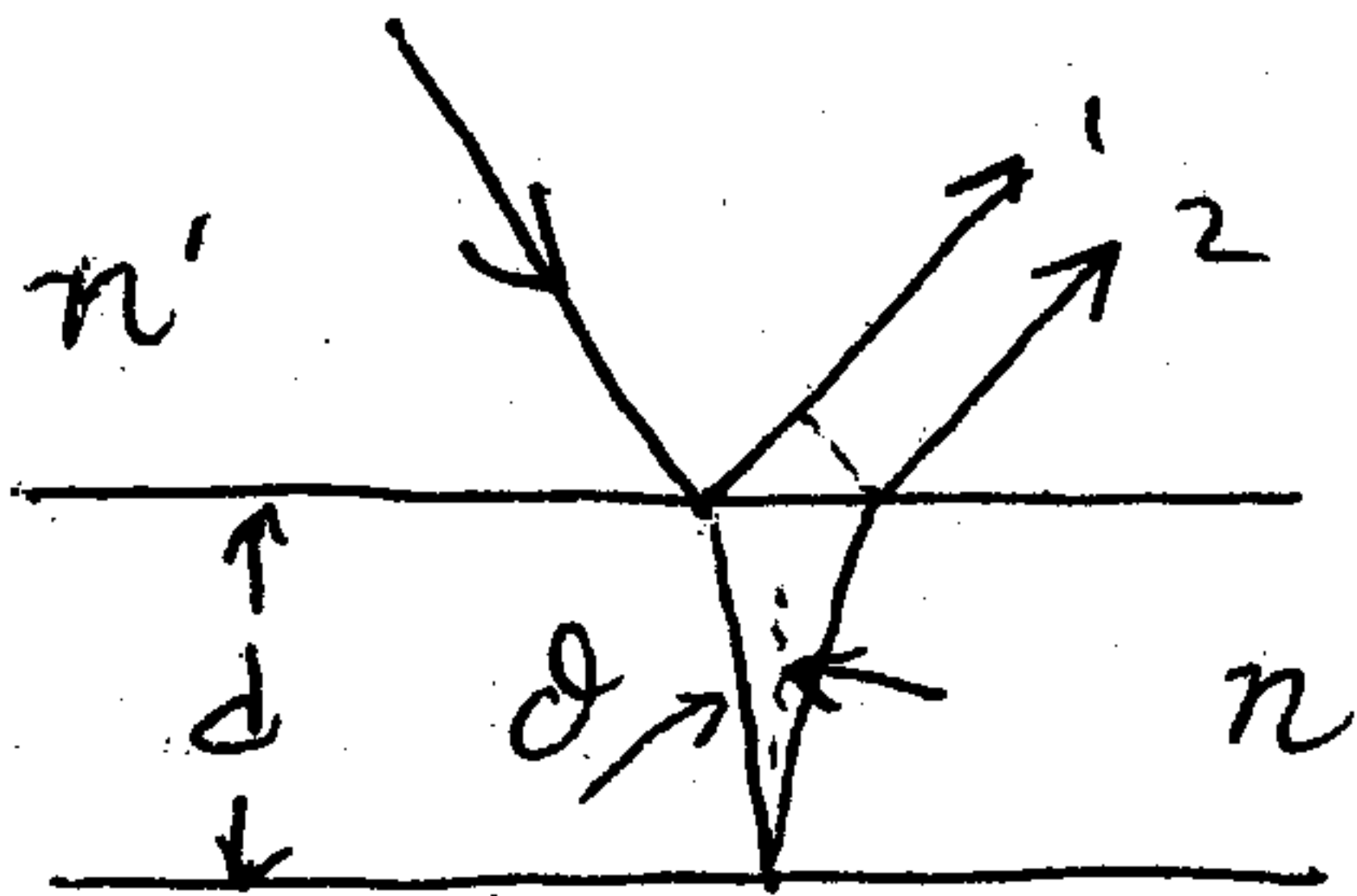


# FIZEAU FRINGES



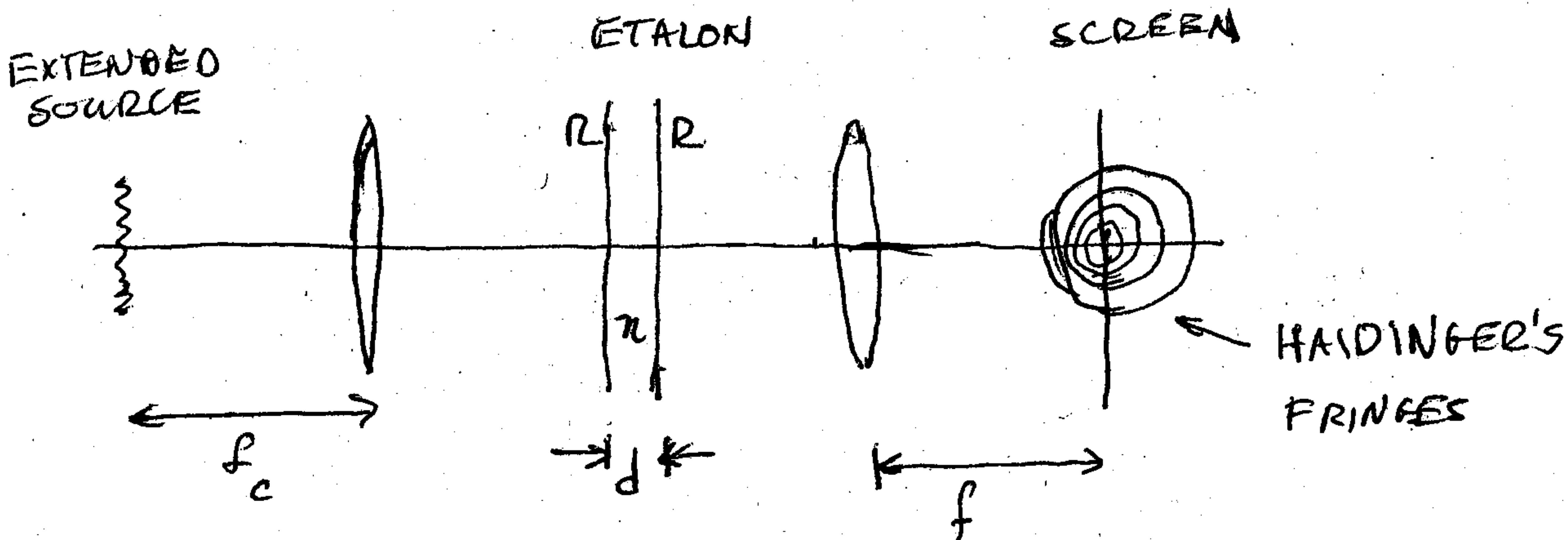
$$OPD_{1,2} = 2nd \cos \theta$$

$$\text{BRIGHT FRINGE} \Rightarrow OPD_{1,2} = m\lambda$$

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



# FABRY-PEROT



$$\text{FINESSE} = \mathcal{F} = \frac{\pi \sqrt{R}}{1-R}$$

$$\text{RESOLVING POWER} = \frac{\lambda}{\Delta \lambda_{\text{RES}}} = m \mathcal{F} \approx \frac{2nd}{\lambda} \mathcal{F} \quad (\text{at normal incidence})$$

$$\text{FREE SPECTRAL RANGE} = \frac{\lambda}{m} = \Delta \lambda_{\text{FSR}} \approx \frac{\lambda^2}{2nd} \quad (\text{at normal incidence})$$

$$\frac{\Delta \lambda_{\text{FSR}}}{\Delta \lambda_{\text{RES}}} = \mathcal{F}$$

