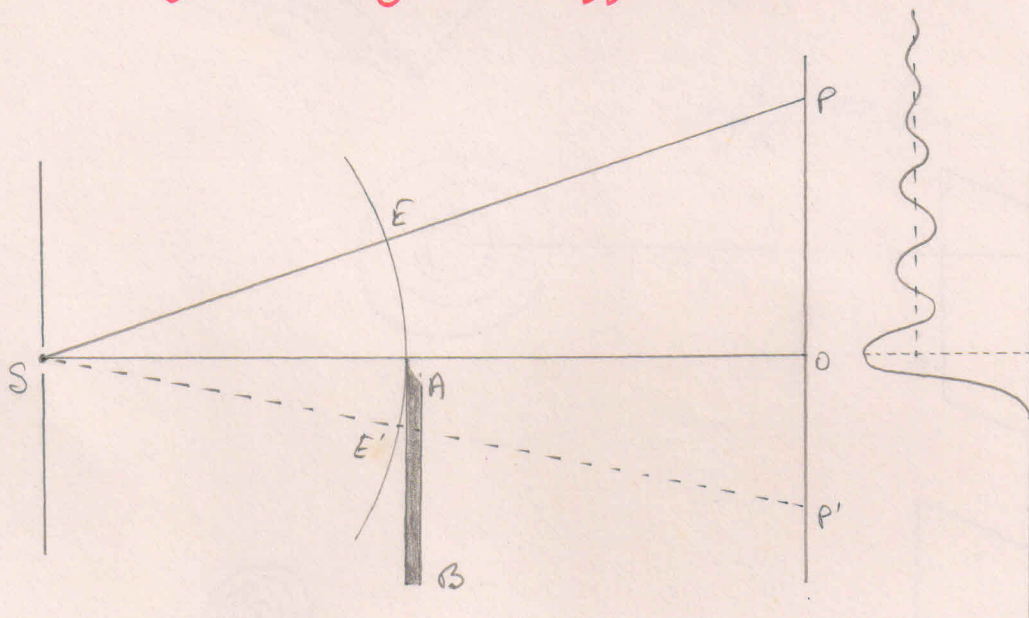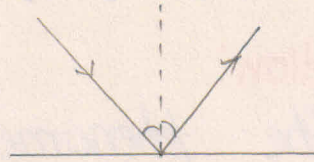# DIFFRACTION

Diffraction:

The phenomenon of bending round corners of an obstacle and entering into the region of the geometrical shadow is called Diffraction of light.

Straight edge diffraction:

$$\lambda = 10^{-4} cm$$

Body $\mathcal{B} \gg \lambda$
then reflection

Body $\mathcal{B} \simeq \lambda$
then Diffraction

Body $\mathcal{B} \ll \lambda$
then scattering

$$S \propto \frac{1}{\lambda^4}$$