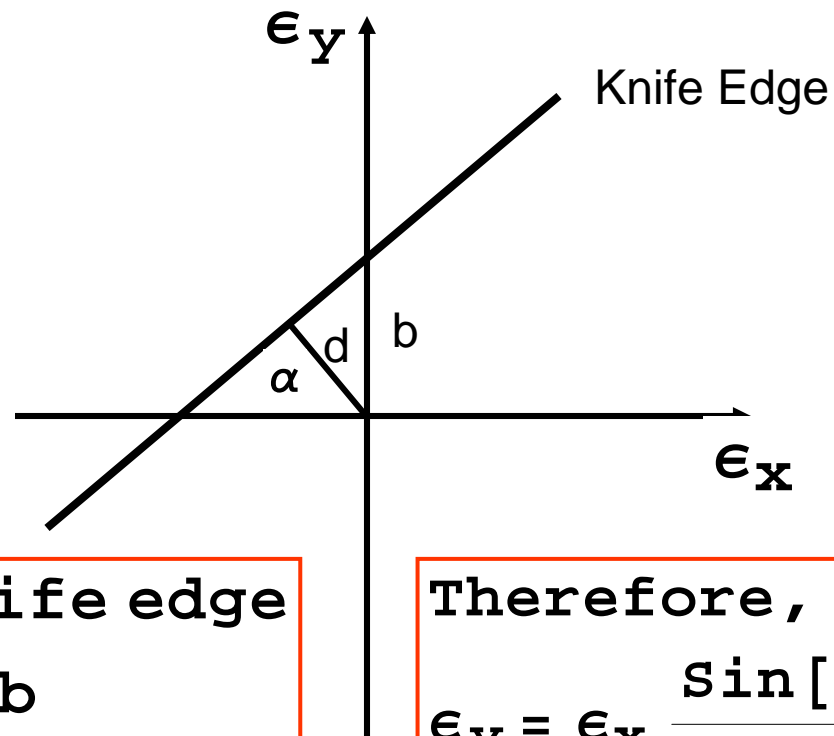


# Knife Edge at Angle



Along the knife edge

$$\epsilon_y = m \epsilon_x + b$$

$$m = \frac{\sin[\alpha]}{\cos[\alpha]}$$

$$\cos[\alpha] = \frac{d}{b}$$

Therefore,

$$\epsilon_y = \epsilon_x \frac{\sin[\alpha]}{\cos[\alpha]} + \frac{d}{\cos[\alpha]}$$

and

$$d = \epsilon_y \cos[\alpha] - \epsilon_x \sin[\alpha]$$