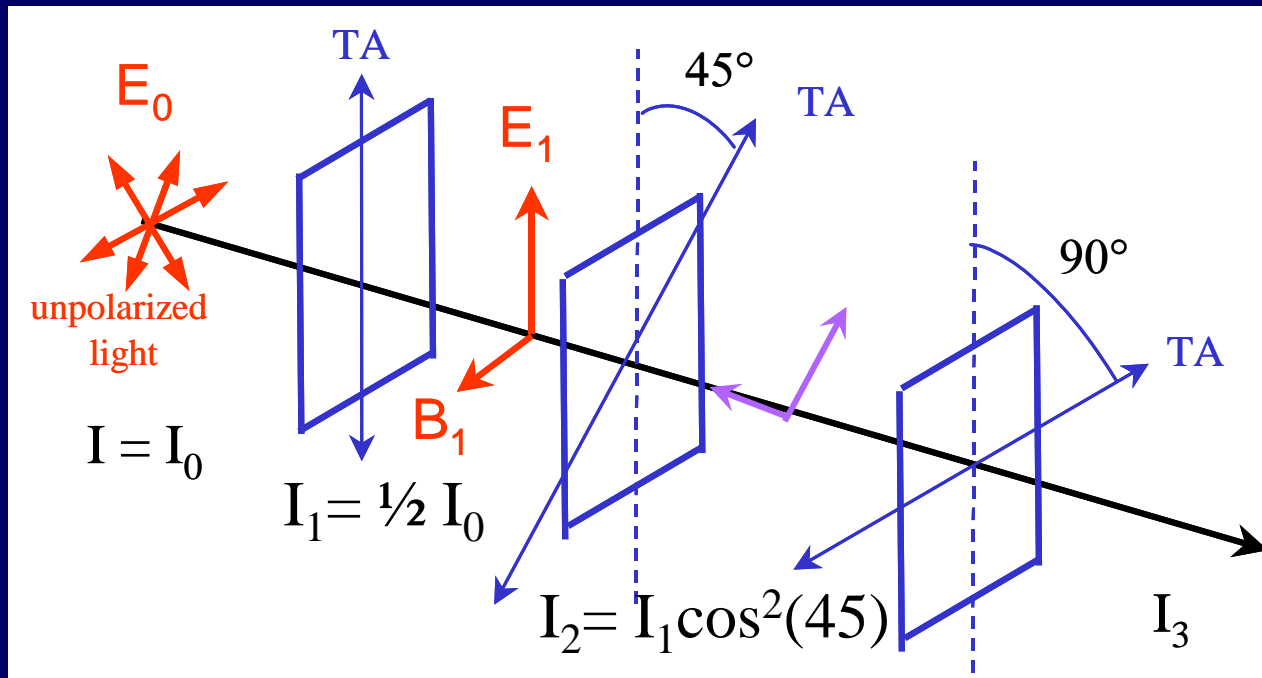
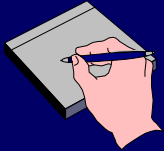


Example

Law of Malus – 3 Polarizers



2) Light transmitted through first polarizer is vertically polarized. Angle between it and second polarizer is $\theta=45^\circ$.

$$I_2 = I_1 \cos^2(45^\circ) = \frac{1}{2} I_0 \cos^2(45^\circ)$$

3) Light transmitted through second polarizer is polarized 45° from vertical. Angle between it and third polarizer is $\theta=45^\circ$.

$$I_3 = I_2 \cos^2(45^\circ) = \frac{1}{2} I_0 \cos^4(45^\circ) = I_0/8$$