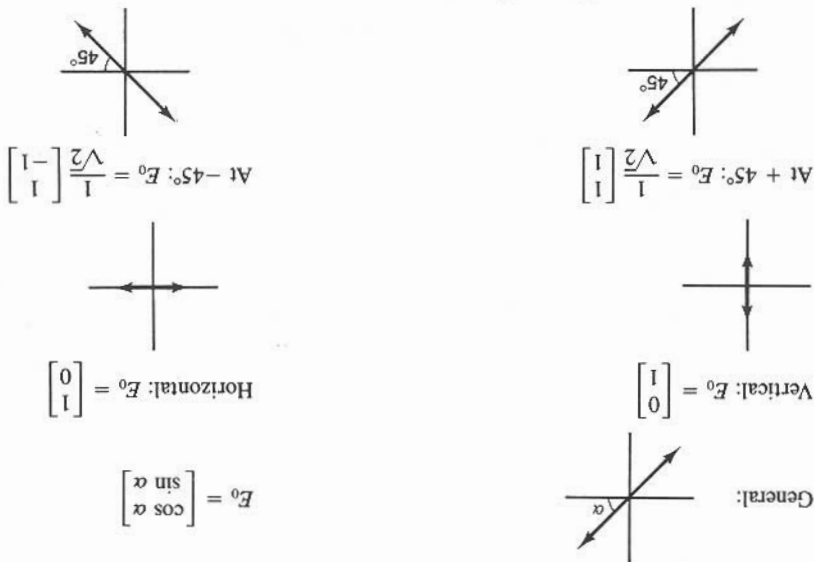
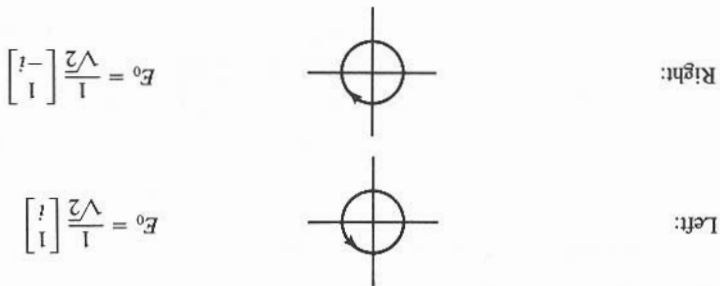


TABLE 14-1 SUMMARY OF JONES VECTORS $E_0 = \begin{bmatrix} E_0^x e^{ik_x x} \\ E_0^y e^{ik_y y} \end{bmatrix}$

I. Linear Polarization ($\Delta\phi = m\pi$)



II. Circular Polarization ($\Delta\phi = \frac{\pi}{2}$)



III. Elliptical Polarization

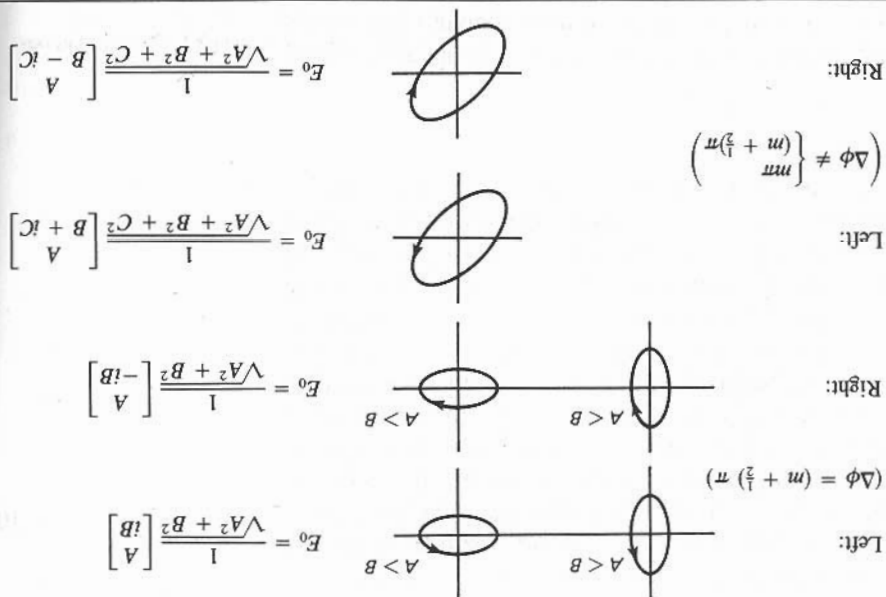


TABLE 14-2 SUMMARY OF JONES MATRICES**I. Linear polarizers**

$$\text{TA horizontal} \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix} \quad \text{TA vertical} \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix} \quad \text{TA at } 45^\circ \text{ to horizontal} \frac{1}{2} \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$$

II. Phase retarders

$$\begin{array}{ccc} & \text{General} & \begin{bmatrix} e^{i\epsilon_x} & 0 \\ 0 & e^{i\epsilon_y} \end{bmatrix} \\ \text{QWP, SA vertical} & e^{-i\pi/4} \begin{bmatrix} 1 & 0 \\ 0 & i \end{bmatrix} & \text{QWP, SA horizontal} & e^{i\pi/4} \begin{bmatrix} 1 & 0 \\ 0 & -i \end{bmatrix} \\ \text{HWP, SA vertical} & e^{-i\pi/2} \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix} & \text{HWP, SA horizontal} & e^{i\pi/2} \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix} \end{array}$$

III. Rotator

$$\text{Rotator} \quad (\theta \rightarrow \theta + \beta) \quad \begin{bmatrix} \cos \beta & -\sin \beta \\ \sin \beta & \cos \beta \end{bmatrix}$$