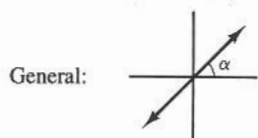


TABLE 14-1 SUMMARY OF JONES VECTORS $E_0 = \begin{bmatrix} E_{0x}e^{i\phi_x} \\ E_{0y}e^{i\phi_y} \end{bmatrix}$

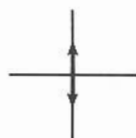
I. Linear Polarization ($\Delta\phi = m\pi$)



$$E_0 = \begin{bmatrix} \cos \alpha \\ \sin \alpha \end{bmatrix}$$

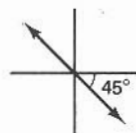
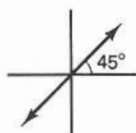
Vertical: $E_0 = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$

Horizontal: $E_0 = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$



At $+45^\circ$: $E_0 = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 \\ 1 \end{bmatrix}$

At -45° : $E_0 = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 \\ -1 \end{bmatrix}$



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

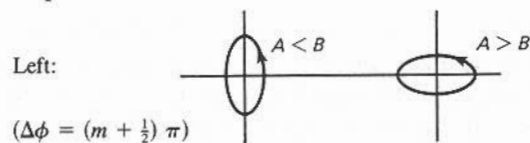


$$E_0 = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 \\ i \end{bmatrix}$$

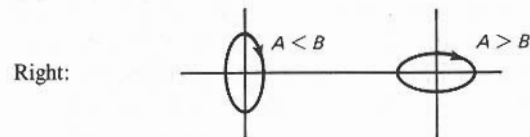


$$E_0 = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 \\ -i \end{bmatrix}$$

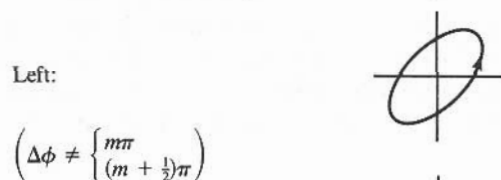
III. Elliptical Polarization



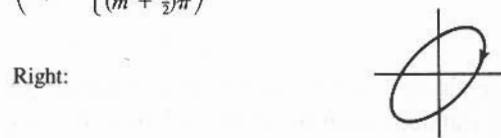
$$E_0 = \frac{1}{\sqrt{A^2 + B^2}} \begin{bmatrix} A \\ iB \end{bmatrix}$$



$$E_0 = \frac{1}{\sqrt{A^2 + B^2}} \begin{bmatrix} A \\ -iB \end{bmatrix}$$



$$E_0 = \frac{1}{\sqrt{A^2 + B^2 + C^2}} \begin{bmatrix} A \\ B + iC \end{bmatrix}$$



$$E_0 = \frac{1}{\sqrt{A^2 + B^2 + C^2}} \begin{bmatrix} A \\ B - iC \end{bmatrix}$$