

1.22 Solution:

(a)

$$P_z = \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} = P_z$$

$$P^2 = R(-\psi)P_zR(\psi)R(-\psi)P_zR(\psi) = R(-\psi)P_zP_zR(\psi) = R(-\psi)P_zR(\psi) = P^2$$

Using Dirac notation of linear algebra, a projection operator can be written $P = |p\rangle\langle p|$

(b) The transmitted state through a polarizer is obtained by operating the projection operator on the input polarization state. Thus we have

$$|E_t\rangle = P|E_i\rangle = |p\rangle\langle p|E_i\rangle$$

(c) The amplitude of transmission is given by

$$\langle x|u\rangle\langle u|p\rangle = \cos\psi\cos\psi, \text{ where } \psi = 45^\circ.$$

(d) The transmitted amplitude is given by

$$\langle x|u_N\rangle\langle u_N|u_{N-1}\rangle\cdots\langle u_2|u_1\rangle\langle u_1|u\rangle\langle u|p\rangle = \cos\psi\cos\psi\cos\psi\cdots\cos\psi\cos\psi = (\cos\psi)^N$$

where $\psi = \pi/(2N)$.

For large N , $\pi/(2N) \ll 1$,

$$\cos\left(\frac{\pi}{2N}\right) \approx 1 - \frac{1}{2}\left(\frac{\pi}{2N}\right)^2$$

Using

$$\lim_{x \rightarrow 0} \left(1 - \frac{x}{N}\right)^N = \exp(-x)$$

we obtain

$$\lim_{N \rightarrow \infty} \left[\cos\left(\frac{\pi}{2N}\right) \right]^N = \lim_{N \rightarrow \infty} \left[1 - \frac{1}{2} \left(\frac{\pi}{2N} \right)^2 \right]^N = \lim_{N \rightarrow \infty} \left[1 - \frac{1}{N} \frac{\pi^2}{8N} \right]^N = \lim_{N \rightarrow \infty} \exp\left(-\frac{\pi^2}{8N}\right) = 1$$

Amnon Yariv Solutions Manual

Jiyuan Zhang



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