

⑩ M-ary phase-shift key (PSK) involves choosing signals of form $\cos(\omega_0 t + \theta_i)$ for M values of i . To have the same probability of error for each of the signals, the values for θ_i are chosen as

$$a) \theta_i = 2\pi \frac{(i-1)}{M}$$

$$b) \theta_i = 2\pi \frac{i}{M}$$

$$c) \theta_i = \frac{i}{M}$$

$$d) \theta_i = 2\pi \frac{(i-1)}{360}$$