P. 898 m 49

$$\cos \frac{y^{\circ}}{2} = \frac{1}{8}$$

$$\frac{y_0}{z} = 0\pi \cos \frac{1}{8}$$

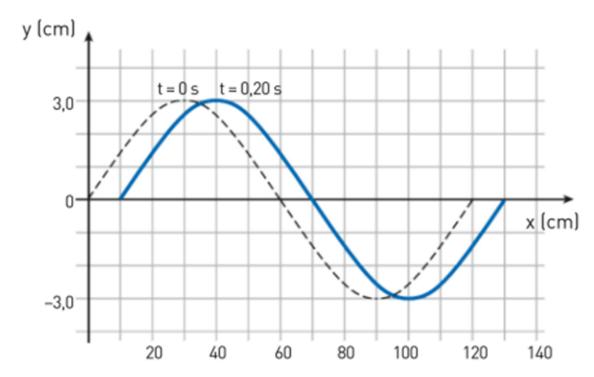
$$y_0 = 2 \circ \pi \cos \frac{1}{8} = 2,9 \pi \cos \frac{1}{8}$$

PAG. 838 N 52

$$\begin{array}{lll}
A & 10m \\
A & 10m \\
N = 340 & X \\
N = 0,1,2,3,...$$

$$\begin{array}{lll}
A & 10m \\
N & 2 & 2 \\
N$$

833 N4



$$\lambda = 1,20 \text{ m}$$

$$N = \frac{\Delta x}{\Delta t} = \frac{0.10 \, \text{m}}{0.20 \, \text{s}} = 0,50 \, \text{m}$$

$$P = \frac{1}{T} = \frac{1}{2,45} = 0,42 \, \text{Hz}$$

$$T = \frac{\lambda}{N} = \frac{1,20m}{0,50} = 2,45$$

PAG. 300 N14

$$y = \sqrt{3} \alpha \cos \left(\omega t + \frac{T}{4}\right)$$

$$y_1 = \alpha \cos \left(\omega t + \frac{P_1}{4}\right) \qquad y_2 = \alpha \cos \left(\omega t + \frac{P_2}{2}\right)$$

$$y_1 + y_2 = y$$

$$\alpha \cos \left(\omega t + \frac{P_1}{4}\right) + \alpha \cos \left(\omega t + \frac{P_2}{2}\right) = \alpha \left[\cos \left(\omega t + \frac{P_2}{4}\right) + \cos \left(\omega t + \frac{P_2}{2}\right)\right]$$

$$= 0.2 \cos \frac{2\omega t + \frac{P_1 + \frac{P_2}{2}}{2}}{2} \cos \frac{\frac{P_2 - \frac{P_1}{4}}{2}}{2} = 2\alpha \cos \frac{\frac{P_2 - \frac{P_1}{4}}{2}}{2} \cos \left(\omega t + \frac{\frac{P_1 + \frac{P_2}{2}}{2}}{2}\right)$$

$$= 2\alpha \cos \frac{\frac{P_2 - \frac{P_1}{4}}{2}}{2} \cos \left(\omega t + \frac{\frac{P_1 + \frac{P_2}{2}}{2}}{2}\right)$$

$$\sqrt{3} \alpha = \frac{\frac{T}{4}}{4}$$

$$\begin{cases} 29 \cos \frac{4^{2}-4^{1}}{2} = 9 \cos \frac{4^{2}-4^{1}}{2} = \frac{53}{2} \\ \frac{4^{1}+4^{2}}{2} = \frac{\pi}{4} \\ \frac{2^{2}-4^{1}}{2} = \frac{\pi}{6} = 3 \begin{cases} 4^{2}-4^{1} = \frac{\pi}{3} \\ 4^{2}-4^{1} = \frac{\pi}{3} \end{cases} \qquad \begin{cases} 4^{1}-\frac{4^{2}}{2} = \frac{5\pi}{3} \\ 4^{2}-\frac{\pi}{3} = \frac{\pi}{12} \end{cases}$$

$$4^{1}-\frac{5\pi}{2} = \frac{\pi}{12} \qquad 4^{1}-\frac{5\pi}{3} = \frac{\pi}{12}$$

$$4^{1}-\frac{5\pi}{12} = \frac{\pi}{12} \qquad 4^{1}-\frac{5\pi}{12} = \frac{\pi}{12}$$

$$4^{1}-\frac{5\pi}{12} = \frac{\pi}{12} = \frac{\pi}{12} = \frac{\pi}{12}$$

$$4^{1}-\frac{5\pi}{12} = \frac{\pi}{12} = \frac{\pi}{12} = \frac{\pi}{12} = \frac{\pi}{12}$$

$$4^{1}-\frac{5\pi}{12} = \frac{\pi}{12} = \frac{\pi}{1$$