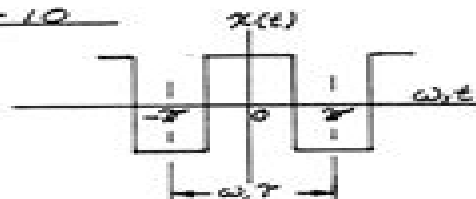


1-10



$x(t)$ is even function

$$b_n = 0$$

$$a_n = \frac{2}{T} \int_{-T/2}^{T/2} x(t) \cos n\omega_1 t dt$$

$$T = \frac{2\pi}{\omega_1}$$

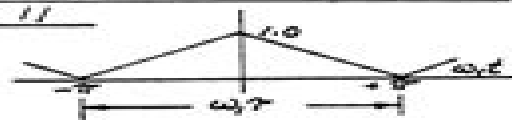
$$\omega_n = n\omega_1$$

$$a_n = \frac{1}{\pi} \int_{-\pi}^{-\pi/2} (-1) \cos n\omega_1 t d(\omega_1 t) + \frac{1}{\pi} \int_{-\pi/2}^{+\pi/2} (1) \cos n\omega_1 t d(\omega_1 t) + \frac{1}{\pi} \int_{+\pi/2}^{+\pi} (-1) \cos n\omega_1 t d(\omega_1 t)$$

$$= \frac{1}{\pi} \left\{ \begin{array}{l} \pm 4 \\ - \text{for } n = 3, 7, 11, \dots \end{array} \right.$$

$$x(t) = \frac{4}{\pi} \left(\cos \omega_1 t - \frac{1}{9} \cos 3\omega_1 t + \frac{1}{25} \cos 5\omega_1 t - \dots \right)$$

1-11



$x(t)$ is even function $b_n = 0$

$$x(t) = \begin{cases} \frac{1}{\pi}(t+\pi) & -\pi \leq t \leq 0 \\ \frac{1}{\pi}(\pi-t) & 0 \leq t \leq \pi \end{cases}$$

$$\frac{1}{T} a_0 = \text{average value} = \frac{1}{2}$$

$$a_n = \frac{1}{\pi} \int_{-\pi}^0 \frac{1}{\pi}(t+\pi) \cos n\omega_1 t d(\omega_1 t) + \frac{1}{\pi} \int_0^{\pi} \frac{1}{\pi}(\pi-t) \cos n\omega_1 t d(\omega_1 t)$$

$$= \frac{2}{\pi} \int_0^{\pi} \frac{1}{\pi}(\pi-t) \cos n\omega_1 t d(\omega_1 t) \quad \text{because of symmetry}$$

$$= \frac{2}{\pi^2} \left. \frac{\sin n\omega_1 t}{n} \right|_0^{\omega_1 t = \pi} - \frac{2}{\pi^2} \left(\frac{\cos n\omega_1 t}{n^2} + \omega_1 t \frac{\sin n\omega_1 t}{n} \right) \Big|_0^{\omega_1 t = \pi}$$

$$= \begin{cases} 0 & \text{for } n \text{ even} \\ \frac{4}{\pi^2 n^2} & \text{for } n \text{ odd} \end{cases}$$

$$x(t) = \frac{1}{2} + \frac{4}{\pi^2} \left(\cos \omega_1 t + \frac{1}{9} \cos 3\omega_1 t + \frac{1}{25} \cos 5\omega_1 t + \dots \right)$$

Theory Of Vibration With Applications Solution Manual

Alan Palazzolo



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