

- 15.1** Find the exponential Fourier series for the periodic pulse train shown in Fig. P15.1.



Figure P15.1

SOLUTION:

$$T_0 = 1 \text{ s} \quad \text{and} \quad \omega_0 = 2\pi$$

$$C_0 = \frac{1}{T_0} (10)(0.1)$$

$$C_0 = 1$$

$$C_n = \frac{1}{T_0} \int_0^{0.1} 10 e^{-jn\omega_0 t} dt$$

$$C_n = \frac{10}{T_0} \left[\frac{e^{-jn\omega_0 t}}{-jn\omega_0} \right]_0^{0.1}$$

$$C_n = \frac{10}{T_0} \left[\frac{e^{-jn2\pi(\frac{1}{10})}}{-jn2\pi} + \frac{j}{jn2\pi} \right]$$

$$C_n = \frac{10 e^{-jn\frac{\pi}{10}}}{n\pi} \left[\frac{e^{jn\pi/10} - e^{-jn\pi/10}}{j2} \right]$$

$$C_n = \frac{10}{n\pi} e^{-jn\pi/10} \sin n \frac{\pi}{10}$$

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