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



Figure P15.1

SOLUTION:

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

$$C_0 = \frac{1}{I} (I_0)(0.1)$$

$$C_0 = I$$

$$C_1 = \frac{1}{I_0} \int_0^{0.1} I_0 e^{-jn\omega_0 t} dt$$

$$C_2 = \frac{1}{I_0} \left[\frac{e^{-jn\omega_0 t}}{-jn\omega_0} \right]_0^{\frac{1}{I_0}}$$

$$C_3 = \frac{1}{I_0} \left[\frac{e^{-jn2\pi}(\frac{1}{I_0})}{-jn2\pi} + \frac{1}{jn2\pi} \right]$$

$$C_4 = \frac{1}{I_0} \left[\frac{e^{-jn\pi}\pi_{I_0}}{-jn\pi} \left[\frac{e^{jn\pi}\pi_{I_0}}{-j2\pi} - \frac{e^{-jn\pi}\pi_{I_0}}{-j2\pi} \right]$$

$$C_4 = \frac{1}{I_0} \left[\frac{e^{-jn\pi}\pi_{I_0}}{-jn\pi} + \frac{1}{I_0} \right]$$

$$C_5 = \frac{1}{I_0} \left[\frac{e^{-jn\pi}\pi_{I_0}}{-jn\pi} + \frac{1}{I_0} \right]$$

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