

Problems :-

x(t) = cost $E = T \lim_{n \to \infty} \int_{-T}^{T} |x(t)|^2 dt$ 5 $= T = \int_{T}^{\lim_{t \to 0}} \int_{T}^{T} \cos^2 t \, dt$ = T a I HOSZT dt $= \frac{1}{2} \left[T \frac{1}{700} \int_{T} 1 dt + T \frac{1}{700} \int_{T} \frac{1}{100} dt \right]$ = 次、「学。 [[+丁] ラ 之 「ラの 2丁 E= 20 foules = 1/2 . 2 $P = +\frac{1}{7} \frac{1}{27} = \int_{T}^{T} \left[J(t) \right]^2 dt$ $= T + \frac{1}{27} = \frac{1}{27} + \frac{1}{7} = \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{1}{7} + \frac{1}{7$ $= 1 \frac{1}{790} \frac{1}{27} \frac{1}{7} \frac{1}{7} \frac{1+\cos 2t}{2} dt$ $= \frac{1}{2} \left[T + \frac{1}{2} \frac{m}{2} + \frac{1}{2T} + \frac{1}{T} + \frac{1}{2T} + \frac{1}{2T}$ = 1/2 T-700 27 (37) P = 1/2 Watts ? Determine power & RMSs value of the signal :-(2) jat P = 1 $x(t) = e^{jat} \cos n_{o}t$ $P = T - \frac{1}{7} \frac{1}{7} \frac{1}{27} \frac{1}{27} \frac{1}{7} \frac{$ SNS COLLEGE OF TECHNOLOGY Signals & Systems/Unit I J.Prabakaran AP/ECE = Thing 1 I I HOSZRot dt

$$= \frac{1}{1 + \frac{1}{2}} \frac{1}{2} \frac{1}{2}$$

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