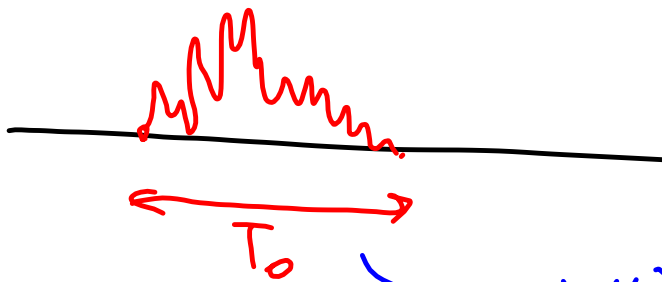


CPE381 #18

CHAPTER #5 FOURIER TRANSF.



$$x(t) = \lim_{T_0 \rightarrow \infty} \tilde{x}(t)$$

$$\mathcal{F}(\alpha \cdot x(t) + \beta y(t)) = \alpha \cdot \mathcal{F}[x(t)] + \beta \mathcal{F}[y(t)] \\ = \alpha \cdot X(\Omega) + \beta \cdot Y(\Omega)$$

DUALITY

$$x(t) \Leftrightarrow X(\Omega)$$

$$X(\Omega) \Leftrightarrow 2\pi x(t)$$

