

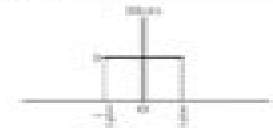
Signal and linear system analysis

- Time-frequency viewpoint
 - Signal models
 - Signal classifications
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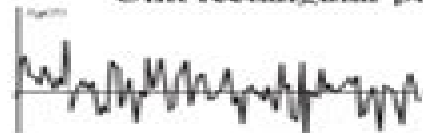
Signal and linear system analysis- signal models

Deterministic and Random Signals

➤ Deterministic signals : $x(t) = A \cos(\omega_0 t)$, $-\infty < t < \infty$
 Unit rectangular pulse : $\Pi(t)$



➤ Random signals :



• Periodic signals : $x(t + T_0) = x(t)$, $-\infty < t < \infty$

• Rotating phasor $\tilde{x}(t) = Ae^{j(\omega_0 t + \theta)}$, $-\infty < t < \infty$ (periodic signal) ↔ distinguish it from the phasor $Ae^{j\theta}$

• $x(t) = A \cos(\omega_0 t + \theta) = \text{Re } \tilde{x}(t)$
 $= \text{Re } Ae^{j(\omega_0 t + \theta)}$



Complex conjugate rotating phasors

$$A \cos(\omega_0 t + \theta) = \frac{1}{2} \tilde{x}(t) + \frac{1}{2} \tilde{x}^*(t)$$

$$= \frac{1}{2} Ae^{j(\omega_0 t + \theta)} + \frac{1}{2} Ae^{-j(\omega_0 t + \theta)}$$

Signal and linear system analysis- signal models



Signals And Systems Analysis Of Signals Through Linear Systems

Sebastian Brünink



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