

Ans

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Page

# CHAPTER 7#7 PROBLEMS

7-1

SOLUTIONS

$$\mathcal{L}[\cos wt] = \frac{s}{s^2 + w^2}$$

We know that

$$\mathcal{L}[f(t)] = \int_0^{\infty} f(t) e^{-st} dt$$

$$\therefore \mathcal{L}[\cos wt] = \int_0^{\infty} \cos wt \cdot e^{-st} dt$$

let  $I = \int_0^{\infty} \cos wt \cdot e^{-st} dt$

let  $I = \frac{e^{-st} \sin wt}{w} \Big|_0^{\infty} + s \int_0^{\infty} \sin wt \cdot e^{-st} dt$

$$I = 0 + \frac{s}{w} \left[ -\frac{e^{-st} \cos wt}{w} \Big|_0^{\infty} - \int_0^{\infty} \cos wt \cdot e^{-st} dt \right]$$

$$I = -\frac{s}{w} \left[ (0 - 1) + s I \right]$$

$$I = -\frac{s}{w} + \frac{s^2 I}{w}$$

$$I + \frac{s^2 I}{w} = -\frac{s}{w}$$

$$I \left( 1 + \frac{s^2}{w^2} \right) = -\frac{s}{w} \Rightarrow \mathcal{L} \left( \frac{w^2 + s^2}{w^2} \right) = -\frac{s}{w}$$

$$I = \frac{s}{w^2} \times \frac{w^2}{s^2 + w^2}$$

$$\therefore I = \frac{s}{s^2 + w^2}$$

proved. QED

# Network Analysis By Van Valkenburg Solution Manual

## Chapter 7

**RC Schank**



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