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E9-247 Circuit Analysis
tamis Page 8:34
Mdt) Vin  Vont  Vont  Vont  22 Molti-Prol+ 23)  3
y(t) = h(t) * u(t)  Trythe convolution  for Revision
UL+) = 2 [U01+) - U0(+-3)]
$U_{2}(t) = 2U_{0}(t) \oplus U_{2}(t) = -2U_{0}(t) \oplus U_{2}(t) \oplus U_{2}($
$\frac{1}{2} \left\{ \frac{1}{1} \left( \frac{1}{1} \left\{ \frac{1}{1} \left( \frac{1}{1} \right) \right) \right) \right)}{1} \right) \right) \right\} \right)} \right]} \right\} \right]}}} \right\} \right]}}}}} \right]}}}}} \right\}} \right\}} \right\}} \right\}} \right\}} \right\}} \right\}} \right\}} \right\}$
$D_{i}(w) = \frac{1}{2} \left\{ 2 U_{o}(t) \right\} = 2 \left( \frac{1}{2} \pi S(w) + \frac{1}{2} \right)$
$\psi_{1}(\omega) = H(\omega)U_{1}(\omega) = \frac{3}{1\omega+2}\left(2\left(2\pi\delta(\omega)+\frac{1}{1\omega}\right)\right)$
$V_{1}(\omega) = \frac{67.8(\omega)}{J\omega+2} + \frac{6}{J\omega(j\omega+2)} $ $(\text{Eq 105})$

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$$X(\omega)S(\omega) = X(0)S(\omega)$$

$$\frac{6}{100(100+2)} = \frac{3}{100} - \frac{3}{100}$$

$$\frac{3}{100} = \frac{3}{100} - \frac{3}{100}$$

$$\frac{1}{2} \left\{ \frac{3}{2} \right\} = \frac{3}{2} \left\{ \frac{3}{2} \right\}$$

$$\frac{1.5(2)}{2}$$
Signum.

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$$y_1(t) = 1.5 + 1.5 \left[ 20_0(H) - 1 \right] - 3e^{-2t} U_0(t)$$

$$y_1 + y_2 = y = 3[1 - e^{-2t}]u_0(t) - 3[1 - e^{-2(t-3)}]u_0$$
(6-3