395 lab

## (alculations

$$\frac{P_2}{C_1 \leq C_1} = \frac{P_2}{C_1 P_2 \leq +1} =$$

$$\frac{R_{2}}{R_{2}+R_{1}+C_{1}R_{1}R_{2}S} = \frac{1}{1+\frac{R_{1}}{R_{2}}+SC_{1}R_{1}} = \frac{1}{\left[\frac{R_{1}}{R_{2}}+1\right]+R_{1}C_{1}S}$$

$$\frac{\left[\begin{array}{c} 21 \\ \overline{22} \end{array}\right] \left[\begin{array}{c} ++\frac{R_1C_1S}{2} \\ \overline{22} \end{array}\right] }{\left[\begin{array}{c} 21 \\ \overline{22} \end{array}\right] }$$

$$\frac{p_2}{p_1+p_2} \cdot \frac{1}{p_1+p_2} \cdot \frac{1}{p_2+p_3} \cdot \frac{p_2}{p_1+p_2} \cdot \frac{1}{p_2+p_3} \cdot \frac{p_3}{p_1+p_2} \cdot \frac{p_2}{p_1+p_3} \cdot \frac{p_3}{p_1+p_3} \cdot \frac{p_3}{p_1+p_3}$$

$$K_{L} \cdot \frac{1}{1+\frac{s}{\omega_{L}}}$$

$$W_{L} = \frac{R_{1}+R_{1}}{R_{1}R_{2}C_{1}}$$

$$W_{L} = \frac{R_{1}+R_{2}}{R_{1}R_{2}C_{1}}$$

1) = KH 5+WH  $H^{Hb}(z) = \frac{\Lambda^{i}}{\Lambda^{Hb}}$  (2)  $\frac{V_{HP}}{V_1} = \frac{\frac{R_3}{R_3C_3St1}}{\frac{1}{C_2S} + \frac{R_3}{R_3C_3St1}} =$  $\frac{\frac{1}{\zeta_3 s} P_3}{R_3 + \frac{1}{C_3 s}} = \frac{P_3}{P_3 \zeta_3 s + 1}$  $= \frac{s}{s \left[ \frac{3}{c_2} + 1 \right] + \frac{1}{2} c_3 c_2}$ = 5 \frac{5}{5\frac{(3}{12} + 5 + \frac{1}{12}}  $\frac{1}{\frac{c_3}{c_1}+1} \cdot \frac{S}{5+\frac{1}{23}c_2} \cdot \frac{1}{\frac{c_3}{c_1}+1} = \frac{c_2}{\frac{c_3}{c_1}+c_2} = \frac{S}{\frac{c_3}{23}c_2} \cdot \frac{S}{\frac{c_2}{23}c_2} \cdot \frac{S}{\frac{c_3}{23}c_2} \cdot \frac{S}{\frac{c_3}{23}c$  $K_{H} = \frac{c_{2}}{c_{3}+c_{2}}$   $w_{H} = \frac{c_{2}}{c_{3}c_{2}(c_{3}+c_{2})}$ where

2)

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$$K_L = \frac{R_2}{D_1 + P_2} = X_H = \frac{C_2}{C_3 + C_2} = .5$$

$$W_{L} = \frac{R_{1}}{R_{1}} + 1 = \frac{R_{1} + R_{2}}{R_{1}R_{2}C_{1}} = \frac{R_{1} + R_{2}}{R_{1}R_{2}C_{1}} = \frac{1}{R_{3}C(3+C_{2})}$$

$$W = 2af$$
  $f_L = F_H = 5KH_2$ 

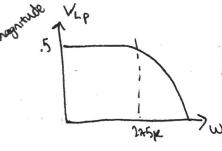
R1=R2=152

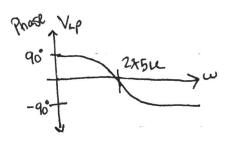
 $\frac{1+1}{\sqrt{7}} = 10000 \%$ 

$$\frac{(2)}{(2)^{+1/2}} = .5$$
 $2(2) = (3)^{+1/2}$ 
 $(2) = (3)$ 

$$(2) = 12$$
 = 10000 t  $(3 = 1)$   $(3 = 1)$   $(3 = 1)$   $(3 = 1)$   $(3 = 1)$ 

3) regunde





225M

V; (t) = .4510 (2x4000t) 4)

$$V_{LP} = .5 \frac{1}{1 + \frac{5}{2 + 5 \mu}}$$
 $|H(1\omega)| = (.5) \frac{1}{1 + (\frac{2 \pi 4000}{2 + 5000})^2} = .3904$ 

$$\frac{100 + 225 \text{ K}}{5 + 14} \left( .4 \sin(2244 \text{ K}) \right) = \frac{28^{340}}{6.4636^{35605}} \left( .4 \sin(2244 \text{ K}) \right)$$

5) Vi= ,3510 (226000t)

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 $|H(w)| = .5 \frac{1}{1 + (6/5)^2} = .32005$ 

L H()w) = -tan-1 (6/5) = -.67

Volt = .096 Sin (276000t -. 87)

| H (Ju) = 1516 . 3510 (20000) = 13 .3 SIN(200000)

36 .3 sin (226000L) = .11523 sin (226000t - .69473)