W.J. Kezwin, L.P. Huelsman & R.W. Newcomb or State-Vaniable Felter

$$\frac{V_{0}, H_{p}}{V_{i}} = \frac{S^{2}}{S^{2} + 2 \rho \omega_{h} S + \omega_{h}^{2}} \longrightarrow H_{p} \Gamma$$

$$\frac{V_{0}, B_{p}}{V_{i}} = \frac{\omega_{h} S}{S^{2} + 2 \rho \omega_{h} S + \omega_{h}^{2}} \longrightarrow B_{p} \Gamma$$

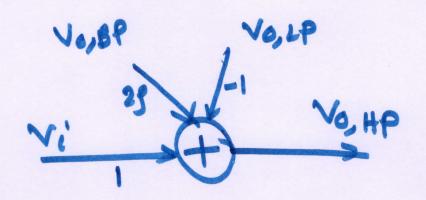
$$\frac{V_{0}, L_{p}}{V_{i}} = \frac{\omega_{h}^{2}}{S^{2} + 3 \rho \omega_{h} S + \omega_{h}^{2}} \longrightarrow L_{p} \Gamma$$

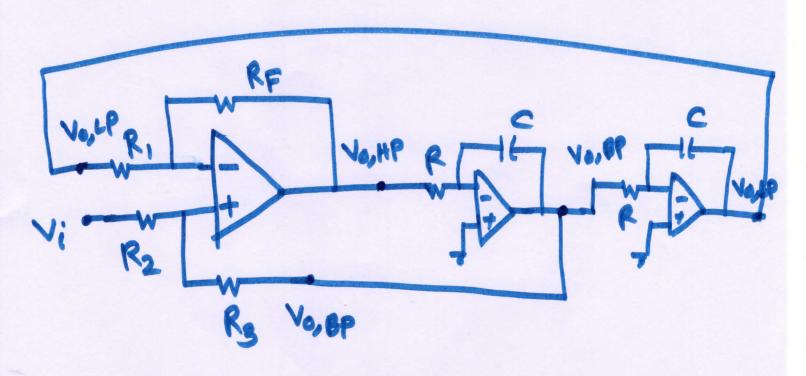
$$\frac{V_{0,HP}}{V_{i}} = \frac{S^{2}}{S^{2}+2\rho\omega_{N}S+\omega_{N}^{2}}$$

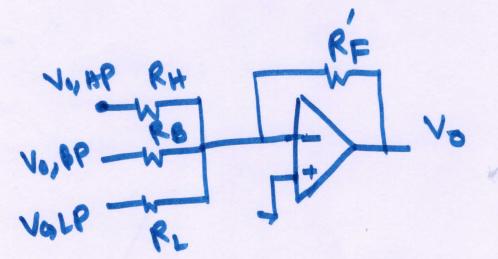
$$= \frac{1}{1+2\rho(\omega_{N})+(\omega_{N})^{2}}$$

$$= V_{i}$$

$$\Rightarrow V_{0,HP} = V_{i} - 2P(\frac{\omega_{n}}{s})V_{0,HP} - (\frac{\omega_{n}}{s})^{2}V_{0,HP}$$







Phasor- Diagram

$$\frac{\chi_{c}(j)}{I_{c}} = \frac{1}{\chi_{c}(J\omega)} = \frac{1}{J\omega c} = \frac{1}{\omega c} e^{-J^{2}\eta_{2}^{2}}$$

TC = Vi L+A

VC = ? Jc L-903

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