

From (B) to (C) - charge conserved on capacitor plates connected to opamp -ve i/p

(C) - Charge conserved on capacitor

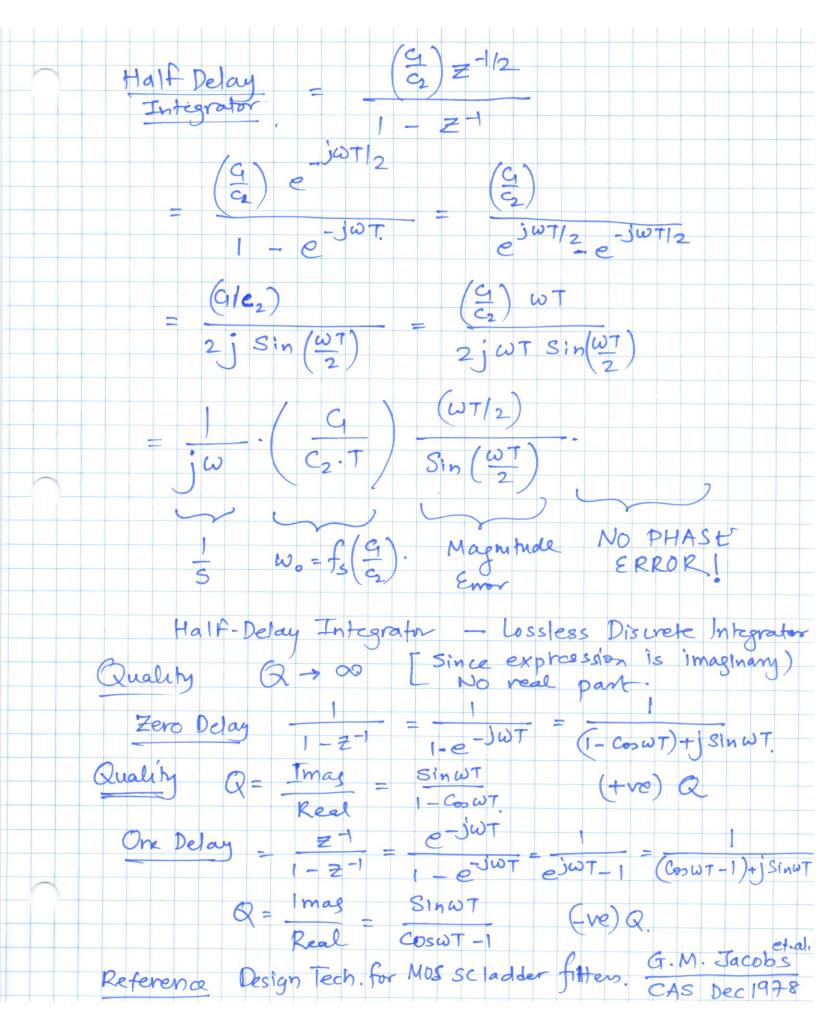
Plates connected to opamp -ve i/p

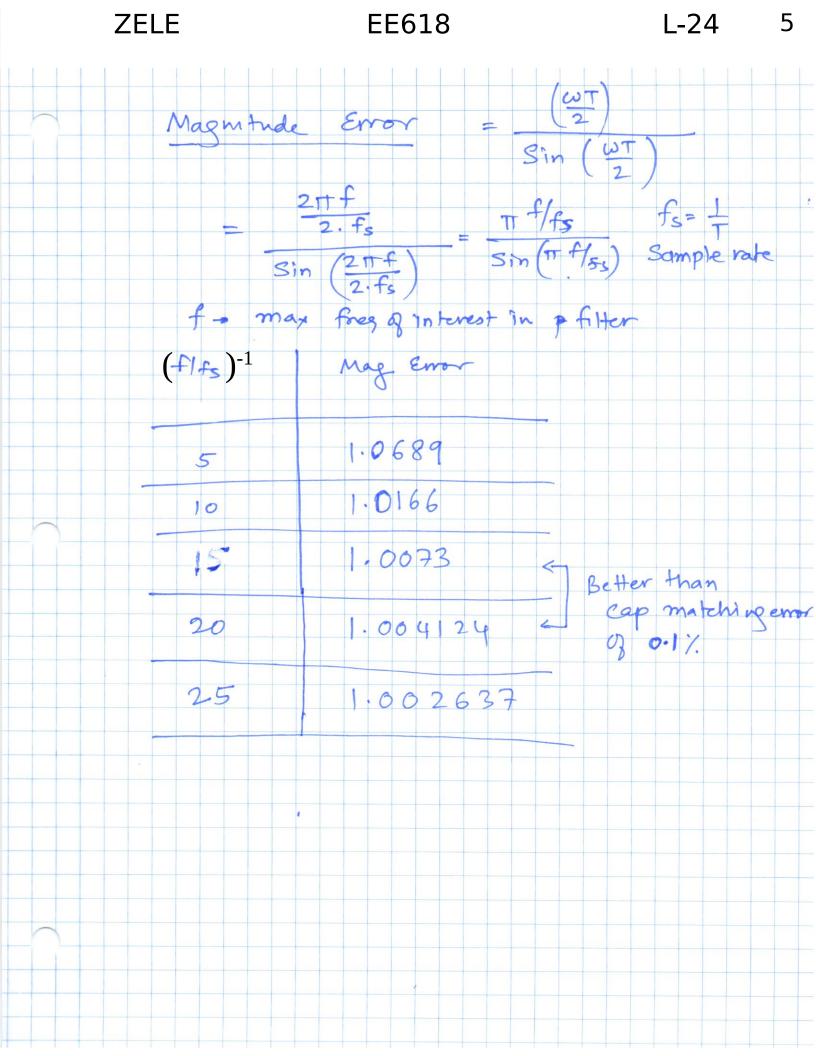
(C) - Charge conserved on capacitor

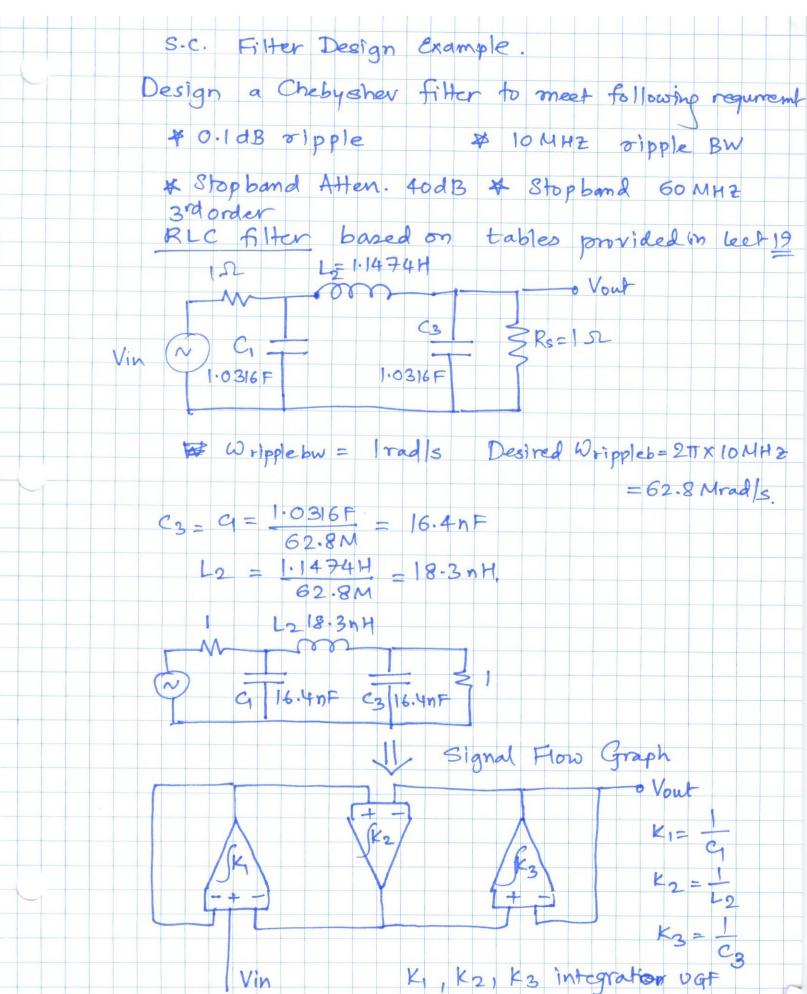
Plates connected to opamp -ve i/p

(C) - Charge conserved on capacitor From B to C -C1Vp(+-I) - C2Vout2(+-T) = -C1VN(+) - C2Vout2(+) $\frac{C_1}{C_2} V_p(t-\frac{T}{2}) + V_{out_2}(t-T) = \frac{C_1}{C_2} V_N(t) + V_{out_2}(t)$ $\frac{Z}{C_2} \times \frac{Z}{Z} - X_{form}$ $\frac{C_1}{C_2} z^{-1/2} V_p(z) + z^{-1} V_{out_2}(z) = \frac{C_1}{C_2} V_N(z) + V_{out_2}(z)$ $Vout_{2}(z) = \begin{pmatrix} G \\ C_{2} \end{pmatrix} z^{-1/2} \qquad Vp(z) - \begin{pmatrix} C_{1} \\ C_{2} \end{pmatrix} V_{N}(z)$ $1 - Z^{-1} \qquad (Zero Delay)$ $(Half Delay) \qquad (Zero Delay).$ Vout, (2) = Z-1/2 Vout, (2) Vout, $(2) = \begin{pmatrix} G \\ C_2 \end{pmatrix} z^{-1}$, $V_p(z) = \begin{pmatrix} G_1 \\ C_2 \end{pmatrix} z^{-1} b$, $V_p(z) = \begin{pmatrix} G_1 \\ C_2 \end{pmatrix} z^{-1} b$, $V_p(z) = \begin{pmatrix} G_1 \\ C_2 \end{pmatrix} z^{-1} b$, $V_p(z) = \begin{pmatrix} G_1 \\ G_2 \end{pmatrix} z^{-1} b$, $V_p(z) = \begin{pmatrix} G_1$ (Unit Delay) (Half Delay) (c1) - Integrator constant (Both (tre) & (ve) 1 -> Integrator function

Recap	Integrator XF $H(s) = -\frac{1}{5CR} = -\frac{\omega_0}{s}$ $ H(j\omega) = \omega_0/\omega$ $\angle H(j\omega) = 90^\circ$
Lets. Zero Integ (G)	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	$= \int_{-\infty}^{\infty} \frac{(\omega + 1/2)}{(\omega + 1/2)} e^{-\frac{1}{2}(\omega + 1/2)} e^{-\frac$
Similarly One De Integro	lay = (C) Z
	$\int_{0}^{1} \omega = \int_{0}^{1} \left(\frac{C_{2}}{C_{2}}\right)^{2} = \int_{0}^{1} \left($







Connecting to switched cap integrators
* 10MHz ripple BW -> 200MHz=fs (20x)
For integrator 1 & 3. $W_0 = f_s\left(\frac{c_1}{c_2}\right) = \frac{1}{16.4n}$
$\frac{C_2}{C_1} = f_{s,n} _{6.4} _{n} = 200 \times 10^6 \times 16.4 \times 10^{-9}$ For integrator 2 = 3.28
$\omega_o = f_s\left(\frac{c_1}{c_2}\right) = \frac{1}{18\cdot 3n}$ $\left \frac{c_2}{c_1}\right = 3\cdot 66$

