



So the inverse of the gain for the 2nd Byt Stage in 6-1 = VT -1 (1+ Rc1 Ic3 + (VIn-2 VRE-V morgen - Rc1 Ic3) e VIL (Un)) Ic) with CE2 Making some scale assumptions ... G-1 = VT . -1 [(Y=-2VBE-Vmagin) e-ithor aly - i Ic W/T CE3] G= = Vin-2VgE-Vnogn = 1

Tc3 | Rell=1 [e-iten-w/wy - j W3] where $W_3 = \frac{T_c}{(V_{in}-2V_{DE}-V_{margan})C_{E3}}$ and $W_y = \frac{1}{R_yC_y}$ Now we can design C_{E3} and C_y so that both poles occur below the lowest operating freq. 1 W3 = 102 5 10 21/23 $W_y = \frac{1}{R_y C_y} = \frac{I_{C3}}{B(V_{in} - 2V_{BE} - V_{num})C_y} \le \frac{1}{10} 2\pi f_{2y}$ Cy = 5 Ic3 TTB(Vin-2VBE-Vmuyin)fly