Exam 6 part b Band pass filly For 16000 Reject 0 and 8kHz 0 = 27 (26) = IT rous suple mas gain 2 = e = 707 ± .701; Tolls

Class in Dr

Stocking 0=0 and 0=2/8/6 = TT 2:0.5±.5j Z=e'0-1 Z=e'T=-1 Re[Z] Transfer bruker = \(\frac{2}{2} - (.5 + 25) \) \((\frac{2}{2} - (.5) - .5) \) $= G \frac{(z^{2}-1)}{(z^{2}-1)(z$ At 0 = Ty Gan=1 G=1 = N, Nc $N_{1} = (1 - .707) + (0 - .707)^{2}$ = .765 $P_{2} = \int (-1 - .707)^{2} + (0 - .707)^{2}$ = .0.083(2.91) $D_{2} = \frac{1.85}{(5 - .707)^{2} + (.5 - .707)^{2}} \qquad G_{2} = \frac{1.75}{(2^{2} - 1)^{2}}$ $D_{2} = 0.095 \qquad H(z) = \frac{1.75}{(2^{2} - 2 + .5)}$ $D_{2} = \frac{1.85}{(2^{2} - 2 + .5)}$ $D_{3} = \frac{1.85}{(2^{2} - 2 + .5)}$