1)5P HM 3 Ivan Chowdhury B = WHI - WES = HATTHINGHAM = 11 15MH2-1,1MHz=.3MHz = 300KHZMMAMA 3018 1.5 1.6 F(M Hz) = 6 T. 105 TW Wo = JWHI WO = MANNING 4 MINING J(1.5)(1.2) = J1.8 = 1.34MMZ = 2.68R.10 6 [aid] 1) $W_{p} = \left| \frac{W_{g_{p}}^{2} - W_{0}^{2}}{B_{1}W_{0}} \right| = \frac{\left(1.6 MHz \right)^{2} - \left(1.34 MHz \right)^{2}}{\left(.3 MHz \right) \left(1.6 MHz \right)} = 1.59 MHMz$ 2) $W_p = \left| \frac{1^2 - 1.34^2}{(.3)(1)} \right| = 2.65$ Use the lower frequency h = .5 luy (& (r,) / s(rp)) luy, (W, /wp) Tp=21B 16) Buttementh F1=301B Wp=1,59 2.5 log 10 ((1030/10-1)/(1020-1)) log10 (1/1.59) 26,87

h=7

hz
$$\frac{(osh^{-1}(\sqrt{\delta(r_s)/\delta(r_p)}))}{(osh^{-1}(ws/wp))}$$
 $\frac{r_s=30}{r_p=4}$
 $\frac{(osh^{-1}(ws/wp))}{(ws-1)/(10^{2/10}-1)}$
 $\frac{w_s=1}{(osh^{-1}(11.59))}$