EECS 26B Tuesday Feb 18 2020 Frequency Response -**Bode Plots**

Tuesday, February 18,2020 9:18 PM

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 $\sqrt{1+\omega^2(RC)^2}$ $\left| 1 - j - RC \right| = \left| 1 + j - RC \right|$ ") Bode Plat for H(jw) 1) Magnitude at M(jm) VS W on log-log scale 2) Phose of H(jw) vs W on angle vs log scale time constant T=RC Ex1 $w^* = =$ H(j~) 10 102 $\frac{1}{2}$ \frac 102 101 12) (2) Phose of H(jn) VJ. w on log scole in H6-) 4 H(j~) = ? € L $H(iw) = \frac{1}{1+jwRC} = \frac{1-jwRC}{1+w^{2}(RC)^{2}} = \frac{1-jwT}{1+w^{2}T^{2}}$ $tun(\Theta) = Im [H(j-)]$ Re[H(j=)) im re. $\theta = \tan\left(-\frac{\omega t}{2}\right)$ -wT = - tar'(wt)13) Shope of tan": ٩с" t ... '& +45' v' Sketely 4 H(i~) ° 107 는 문