E CE 513- Lecture 1
Tuesday, August 21, 2018 9:37 AM
Bower ratios are expressed
in dB (decibels)

$$P_{in} = 10 \log_{10} (P_{in})$$

 $d_{B} = 10 \log_{10} (P_{in})$
 $R_{in} = 1W \Rightarrow OdBWS dB Watts$
 $R_{in} = 1 mW \Rightarrow OdBWS dB Matts$
 $R_{in} = 1 mW \Rightarrow OdBm S aB milli; Watt$
ifor roltzyes: $P = V^{2}$
 $V_{n} = dS \log_{10} (V_{in})$