

Useless Notes for November 13, 2007

Basic Math that I Should Know Already but Don't

1. $(a + jb)^* = (a - jb)$

Maximum Power Transfer

Chapter 5

1. $V_{rms} = \frac{V_M}{\sqrt{2}}$ for a sinusoid.

2. $I_{rms} = \frac{I_M}{\sqrt{2}}$ for a sinusoid.

3. $P_{ave} = \frac{V_M I_M}{2}$

Complex Power

Chapter 11

1. $\Sigma P_{supplied} = \Sigma P_{absorbed}$

2. $S = \frac{VI^*}{2} = \frac{V_m I_m}{2} \angle (\theta_v - \theta_i)$