

**chapter 21: rlc circuits - university of florida** - phy2054: chapter 21 19 power in ac circuits  $P = VI \cos \phi$  formula  $P = VI \cos \phi$  rewrite using  $V = IZ \cos \phi$  is the  $\cos \phi$  power factor  $\cos \phi$  to maximize power delivered to circuit  $\phi$  make  $\phi$  close to zero max power delivered to load happens at resonance e.g., too much inductive reactance ( $X_L$ ) can be cancelled by increasing  $X_C$  (e.g., circuits with large motors)  $2 P_{ave} = I_{rms}^2 X_C = I_{rms}^2 / \omega C$

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$V_{DS} = V_{DD} - I_{DQ} R_{DS(on)}$   $I_{DQ} = \frac{P_{avg}}{R_{DS(on)}}$   $V_{DS} = V_{DD} - \frac{P_{avg}}{R_{DS(on)}}$  aec & es  $V_{DS} = V_{DD} - \frac{P_{avg}}{R_{DS(on)}}$

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