

# Download File PDF Practice Problems Chapter 33 Alternating Current Circuits

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## Practice Problems - Chapter 33 Alternating Current Circuits

### Multiple Choice

- A high-voltage power-line operates at 500 000 V rms and carries an rms current of 500 A. If the resistance of the cable is 2.0  $\Omega$ /km, what is the average power loss in 50 km of the power-line?
  - 20 kW
  - 500 kW
  - 1.0 megawatt
  - 20 megawatts
  - 200 megawatts
- A 1.0  $\mu$ F capacitor is plugged into 115 V rms 60-Hz voltage source, with an ammeter in series. What is the rms value of the current through the capacitor?
  - 2.00 A rms
  - 5.03 A rms
  - 5.00 A rms
  - 20.0 A rms
  - 1.00 A rms
- A 2.0 H inductor is connected into a 115 V rms 60-Hz voltage source, with an ammeter in series. What is the rms value of the current through the inductor?
  - 2.78 A rms
  - 12.0 A rms
  - 13.6 A rms
  - 1.15 A rms
  - 1.00 A rms
- The inductance of a spring suspended on a 60-Hz AC outlet is 4.0 mH. What is the peak value of the current required for maximum average power?
  - 2.1 A
  - 4.4 A
  - 2.2 A
  - 0.44 A
  - 2.0 A
- Two 8- $\mu$ F capacitors, a 2- $\mu$ F capacitor, and an 8- $\Omega$  resistor are connected in series with a 200-V rms 60-Hz AC voltage source, what is the maximum average power for the source?
  - 1.00 W
  - 20 W
  - 50 mW
  - 120 W
  - 120 A

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