

## Practice Problems - Chapter 33

### Alternating Current Circuits

#### Multiple Choice

4. A high-voltage powerline operates at 500 000 V-rms and carries an rms current of 500 A. If the resistance of the cable is  $0.050\Omega/\text{km}$ , what is the resistive power loss in 200 km of the powerline?
- 250 kW
  - 500 kW
  - 1 Megawatt
  - 2.5 Megawatts
  - 250 Megawatts
12. A  $10\text{-}\mu\text{F}$  capacitor is plugged into a 110 V-rms 60-Hz voltage source, with an ammeter in series. What is the rms value of the current through the capacitor?
- 0.202 A (rms)
  - 0.415 A (rms)
  - 0.626 A (rms)
  - 0.838 A (rms)
  - 0.066 A (rms)
13. A 0.5-H inductor is connected into a 110 V-rms 60-Hz voltage source, with an ammeter in series. What is the rms value of the current through the inductor?
- 0.189 A (rms)
  - 0.292 A (rms)
  - 0.584 A (rms)
  - 1.19 A (rms)
  - 0.093 A (rms)
15. The inductance of a tuning circuit of an AM radio is 4 mH. Find the capacitance of the circuit required for reception at 1200 kHz.
- 2.1 pF
  - 4.4 pF
  - 21.2 pF
  - 43.4 pF
  - 27.6 pF
18. If an  $R = 1\text{-k}\Omega$  resistor, a  $C = 1\text{-}\mu\text{F}$  capacitor, and an  $L = 0.2\text{-H}$  inductor are connected in series with a  $V = 150 \sin(377t)$  volts source, what is the maximum current delivered by the source?
- 0.007 A
  - 27 mA
  - 54 mA
  - 0.308 A
  - 0.34 A

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