

Practice Problems - Alternating Current Circuits

Multiple Choice

1. 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? Remember $P = I_{\text{rms}}^2 R$ find the resistance of the 200km.
 - a. 250 kW
 - b. 500 kW
 - c. 1 Megawatt
 - d. 2.5 Megawatts**
 - e. 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?
 - a. 0.202 A (rms)
 - b. 0.415 A (rms)**
 - c. 0.626 A (rms)
 - d. 0.838 A (rms)
 - e. 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?
 - a. 0.189 A (rms)
 - b. 0.292 A (rms)
 - c. 0.584 A (rms)**
 - d. 1.19 A (rms)
 - e. 0.093 A (rms)
14. 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.
 - a. 2.1 pF
 - b. 4.4 pF**
 - c. 21.2 pF
 - d. 43.4 pF
 - e. 27.6 pF
15. 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?
 - a. 0.150 A
 - b. 0.300 A
 - c. 0.450 A
 - d. 0.600 A
 - e. 0.750 A

Practice Problems Chapter 3 alternating Current Circuits

A Loxley



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