

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

Practice Problems Chapter 33 Alternating Current Circuits

Hongru Du



Practice Problems Chapter 33 Alternating Current Circuits:

This book delves into Practice Problems Chapter 33 Alternating Current Circuits. Practice Problems Chapter 33 Alternating Current Circuits is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Practice Problems Chapter 33 Alternating Current Circuits, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Practice Problems Chapter 33 Alternating Current Circuits
 - Chapter 2: Essential Elements of Practice Problems Chapter 33 Alternating Current Circuits
 - Chapter 3: Practice Problems Chapter 33 Alternating Current Circuits in Everyday Life
 - Chapter 4: Practice Problems Chapter 33 Alternating Current Circuits in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Practice Problems Chapter 33 Alternating Current Circuits. The first chapter will explore what Practice Problems Chapter 33 Alternating Current Circuits is, why Practice Problems Chapter 33 Alternating Current Circuits is vital, and how to effectively learn about Practice Problems Chapter 33 Alternating Current Circuits.
 3. In chapter 2, the author will delve into the foundational concepts of Practice Problems Chapter 33 Alternating Current Circuits. The second chapter will elucidate the essential principles that must be understood to grasp Practice Problems Chapter 33 Alternating Current Circuits in its entirety.
 4. In chapter 3, this book will examine the practical applications of Practice Problems Chapter 33 Alternating Current Circuits in daily life. The third chapter will showcase real-world examples of how Practice Problems Chapter 33 Alternating Current Circuits can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Practice Problems Chapter 33 Alternating Current Circuits in specific contexts. This chapter will explore how Practice Problems Chapter 33 Alternating Current Circuits is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Practice Problems Chapter 33 Alternating Current Circuits. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Practice Problems Chapter 33 Alternating Current Circuits.

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