

Unit 5 Review, pages 626–633

Knowledge

1. (b)
 2. (a)
 3. (d)
 4. (c)
 5. (b)
 6. (c)
 7. (b)
 8. (c)
 9. (b)
 10. (a)
 11. (c)
 12. (b)
 13. (d)
 14. (b)
 15. (c)
 16. False. Voltage is a measure of the amount of electrical potential energy associated with each charge.
 17. False. In a circuit, electrons flow from negative to positive.
 18. True
 19. True
 20. True
 21. False. When two like magnetic poles are brought close one another, they repel.
 22. True
 23. False. Adding a soft-iron core will increase the strength of a DC motor.
 24. True
 25. True
 26. False. A step-up transformer increases the voltage in the secondary circuit.
- OR
- A step-up transformer decreases the current in the secondary circuit.
27. True
 28. (a) (v)
 - (b) (viii)
 - (c) (i)
 - (d) (ix)
 - (e) (iii)
 - (f) (ix)
 - (g) (vi)
 - (h) (iv)
 - (i) (vi)

Understanding

29. The nuclear power plant has an efficiency of 32 %, so 32 % of the total power is transformed into electrical energy. 32 % of 14 000 MW is: $0.32 \times 14\,000 \text{ MW} = 4500 \text{ MW}$

So, the power plant produces 4500 MW of electrical power.

30. Given: $P = 35 \text{ W}$, $\Delta t = 220 \text{ h}$

Required: ΔE

$$\text{Analysis: } P = \frac{\Delta E}{\Delta t}$$

$$\Delta E = P \Delta t$$

Solution: Convert time to seconds to get the answer in joules:

$$\Delta t = 220 \text{ h} \times \frac{3600 \text{ s}}{1 \text{ h}}$$

$$\Delta t = 792\,000 \text{ s}$$

$$\Delta E = (35 \text{ W})(792\,000 \text{ s})$$

$$= 2.772 \times 10^7 \text{ W} \cdot \text{s}$$

$$\Delta E = 2.772 \times 10^7 \text{ J} \text{ (two extra digits carried)}$$

To find the answer in kilowatt hours, convert from joules:

$$2.772 \times 10^7 \text{ J} \times \frac{1 \text{ kWh}}{3.6 \times 10^6 \text{ J}} = 7.7 \text{ kWh}$$

Statement: The light bulb requires 7.7 kWh or 28 MJ of energy to operate for 220 h.

31. Given: $\Delta E = 1400 \text{ J}$, $\Delta t = 7.0 \text{ min}$

Required: P

$$\text{Analysis: } P = \frac{\Delta E}{\Delta t}$$

Solution: First convert time to seconds to get the answer in joules per second or watts:

$$\Delta t = 7 \text{ min} \left(\frac{60 \text{ s}}{1 \text{ min}} \right)$$

$$\Delta t = 420 \text{ s}$$

$$P = \frac{\Delta E}{\Delta t}$$

$$= \frac{1400 \text{ J}}{420 \text{ s}}$$

$$P = 3.3 \text{ W}$$

Statement: The amount of power required to charge the battery is 3.3 W.

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Sampson Low



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Table of Contents Nelson Physics 11 Solutions Manual

1. Understanding the eBook Nelson Physics 11 Solutions Manual
 - The Rise of Digital Reading Nelson Physics 11 Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Physics 11 Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nelson Physics 11 Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Physics 11 Solutions Manual
 - Personalized Recommendations

- Nelson Physics 11 Solutions Manual User Reviews and Ratings
- Nelson Physics 11 Solutions Manual and Bestseller Lists
- 5. Accessing Nelson Physics 11 Solutions Manual Free and Paid eBooks
 - Nelson Physics 11 Solutions Manual Public Domain eBooks
 - Nelson Physics 11 Solutions Manual eBook Subscription Services
 - Nelson Physics 11 Solutions Manual Budget-Friendly Options
- 6. Navigating Nelson Physics 11 Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Nelson Physics 11 Solutions Manual Compatibility with Devices
 - Nelson Physics 11 Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nelson Physics 11 Solutions Manual
 - Highlighting and Note-Taking Nelson Physics 11 Solutions Manual
 - Interactive Elements Nelson Physics 11 Solutions Manual
- 8. Staying Engaged with Nelson Physics 11 Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Physics 11 Solutions Manual
- 9. Balancing eBooks and Physical Books Nelson Physics 11 Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Physics 11 Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nelson Physics 11 Solutions Manual
 - Setting Reading Goals Nelson Physics 11 Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nelson Physics 11 Solutions Manual
 - Fact-Checking eBook Content of Nelson Physics 11 Solutions Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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