

Therefore, the total primary current of this transformer is

$$\mathbf{I}_P = \mathbf{I}_S' + \mathbf{I}_{EX} = 10\angle -36.87^\circ + 1.37\angle -72.5^\circ = 11.1\angle -41.0^\circ \text{ A}$$

The voltage regulation of the transformer at this load is

$$\text{VR} = \frac{V_P - aV_S}{aV_S} \times 100\% = \frac{106.2 - 100}{100} \times 100\% = 6.2\%$$

The input power to this transformer is

$$\begin{aligned} P_{in} &= V_P I_P \cos \theta = (106.2 \text{ V})(11.1 \text{ A}) \cos 41.0^\circ \\ &= (106.2 \text{ V})(11.1 \text{ A}) \cos 43.6^\circ = 854 \text{ W} \end{aligned}$$

The output power from this transformer is

$$P_{out} = V_S I_S \cos \theta = (200 \text{ V})(5 \text{ A}) \cos(36.87^\circ) = 800 \text{ W}$$

Therefore, the transformer's efficiency is

$$\eta = \frac{P_{out}}{P_{in}} \times 100\% = \frac{800 \text{ W}}{854 \text{ W}} \times 100\% = 93.7\%$$

- 2-2.** A 20-kVA 8000/480-V distribution transformer has the following resistances and reactances:

$$\begin{array}{ll} R_P = 32 \Omega & R_S = 0.05 \Omega \\ X_P = 45 \Omega & X_S = 0.06 \Omega \\ R_C = 250 \text{ k}\Omega & X_M = 30 \text{ k}\Omega \end{array}$$

The excitation branch impedances are given referred to the high-voltage side of the transformer.

(a) Find the equivalent circuit of this transformer referred to the high-voltage side.

(b) Find the per-unit equivalent circuit of this transformer.

(c) Assume that this transformer is supplying rated load at 480 V and 0.8 PF lagging. What is this transformer's input voltage? What is its voltage regulation?

(d) What is the transformer's efficiency under the conditions of part (c)?

SOLUTION

(a) The turns ratio of this transformer is $a = 8000/480 = 16.67$. Therefore, the secondary impedances referred to the primary side are

$$\begin{aligned} R_S' &= a^2 R_S = (16.67)^2 (0.05 \Omega) = 13.9 \Omega \\ X_S' &= a^2 X_S = (16.67)^2 (0.06 \Omega) = 16.7 \Omega \end{aligned}$$

Electric Machinery Fundamentals 4th Edition Solution Manual

Jessica J Manson



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Table of Contents Electric Machinery Fundamentals 4th Edition Solution Manual

1. Understanding the eBook Electric Machinery Fundamentals 4th Edition Solution Manual
 - The Rise of Digital Reading Electric Machinery Fundamentals 4th Edition Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Electric Machinery Fundamentals 4th Edition Solution 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 Electric Machinery Fundamentals 4th Edition Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electric Machinery Fundamentals 4th Edition Solution Manual
 - Personalized Recommendations
 - Electric Machinery Fundamentals 4th Edition Solution Manual User Reviews and Ratings

- Electric Machinery Fundamentals 4th Edition Solution Manual and Bestseller Lists
- 5. Accessing Electric Machinery Fundamentals 4th Edition Solution Manual Free and Paid eBooks
 - Electric Machinery Fundamentals 4th Edition Solution Manual Public Domain eBooks
 - Electric Machinery Fundamentals 4th Edition Solution Manual eBook Subscription Services
 - Electric Machinery Fundamentals 4th Edition Solution Manual Budget-Friendly Options
- 6. Navigating Electric Machinery Fundamentals 4th Edition Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Electric Machinery Fundamentals 4th Edition Solution Manual Compatibility with Devices
 - Electric Machinery Fundamentals 4th Edition Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electric Machinery Fundamentals 4th Edition Solution Manual
 - Highlighting and Note-Taking Electric Machinery Fundamentals 4th Edition Solution Manual
 - Interactive Elements Electric Machinery Fundamentals 4th Edition Solution Manual
- 8. Staying Engaged with Electric Machinery Fundamentals 4th Edition Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electric Machinery Fundamentals 4th Edition Solution Manual
- 9. Balancing eBooks and Physical Books Electric Machinery Fundamentals 4th Edition Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electric Machinery Fundamentals 4th Edition Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electric Machinery Fundamentals 4th Edition Solution Manual
 - Setting Reading Goals Electric Machinery Fundamentals 4th Edition Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electric Machinery Fundamentals 4th Edition Solution Manual
 - Fact-Checking eBook Content of Electric Machinery Fundamentals 4th Edition Solution 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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