

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

$$P_{in} = V_p I_p \cos \theta = (106.2 \text{ V})(11.1 \text{ A}) \cos 2.6^\circ \quad (41.0^\circ)$$

$$P_{in} = (106.2 \text{ V})(11.1 \text{ A}) \cos 43.6^\circ = 854 \text{ W}$$

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

$$R_s' = a^2 R_s = (16.67)^2 (0.05 \Omega) = 13.9 \Omega$$

$$X_s' = a^2 X_s = (16.67)^2 (0.06 \Omega) = 16.7 \Omega$$

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Table of Contents Solution Manual Electric Machinery Fundamentals Chapman

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

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

- 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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