

The method given in [19] allows the determination of the core loss from the measured data under non-sinusoidal excitation without artificial separation of the hysteresis and eddy current losses. Harmonic components are taken into account. The computed results are compared with the IEC method.

A voltage regulator with a large capacitor bank is better than a conventional rotating machine source from the point of view of getting as sinusoidal voltage as possible for core loss measurements.

The no-load loss test and the calculation of parameters of shunt branch of the equivalent circuit of a transformer have been elaborated in Chapter 1. Now, special topics/case studies related to the no-load test are discussed.

2.5.1 Asymmetrical magnetizing phenomenon

Unlike in a bank of three single-phase transformers having independent magnetic circuits, a three-phase three-limb transformer has interlinked magnetic circuit. The excitation current and power drawn by each phase winding are not the actual current and power required by the corresponding magnetic sections of the core. The current drawn by each phase winding is determined by the combination of requirements of all the three core branches. Consider a three-phase three-limb core shown in figure 2.7. Let the magnetomotive force required to produce instantaneous values of fluxes (ϕ_x , ϕ_y and ϕ_b) in the path between points P₁ to P₂ for the phase windings (r , y and b) be NI_x , NI_y and NI_b respectively. There is an inherent asymmetry in the core as the length of magnetic path of winding y between the points P₁ and P₂ is less than that of windings r and b . Let the actual currents drawn be I_x , I_y and I_b .

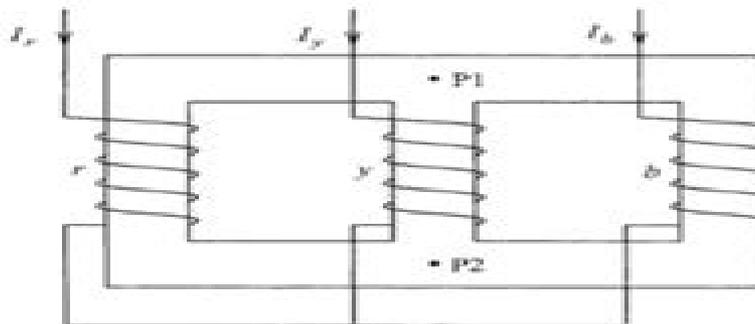


Figure 2.7 Three-phase three-limb core with Y connected primary

Transformer Engineering Design And Practice

Siddappa N.Byrareddy



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Table of Contents Transformer Engineering Design And Practice

1. Understanding the eBook Transformer Engineering Design And Practice
 - The Rise of Digital Reading Transformer Engineering Design And Practice
 - Advantages of eBooks Over Traditional Books
2. Identifying Transformer Engineering Design And Practice
 - 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 Transformer Engineering Design And Practice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Transformer Engineering Design And Practice
 - Personalized Recommendations
 - Transformer Engineering Design And Practice User Reviews and Ratings
 - Transformer Engineering Design And Practice and Bestseller Lists

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