

Describe Transformer Construction

Figure 4-1 illustrates a distribution transformer with the tank partly cut away to show the internal equipment.

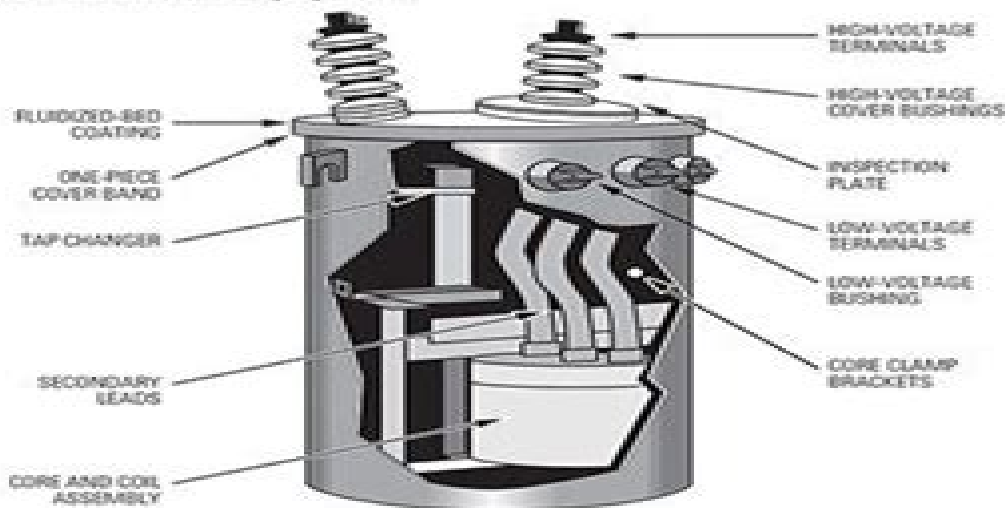


Figure 4-1. Distribution transformer construction.

Basically, a transformer consists of the primary and secondary coils, iron core, insulation, and the container or tank. Other features may be added, such as tap changing mechanisms, internal secondary breakers, internal primary fuses, or lightning arrestors. The larger power transformers have many more features, such as oil conservator tanks, oil-filled bushings, cooling tubes, cooling fans, and heat indicating equipment.


Primary and Secondary Coils

It is customary to use copper wire in the manufacture of transformer windings. Before the introduction of modern insulation materials, the copper conductor was wrapped with a thin cotton cover which added significantly to the bulk of the overall winding. Today's transformer uses enamel insulated copper wire, and because the insulation is of a better grade and is much thinner than the cotton insulation, improved electrical characteristics as well as compactness are obtained.

Round wire is used in some of the smaller transformers, while square or rectangular wire is normally used in medium-sized and larger-sized transformers. Square and rectangular wires form a more compact and solidly built coil, and also provide better conductivity for the heat to flow out of the windings.

Distribution Transformer Testing Guide Internal Diagrams

**Westinghouse Electric Corporation.
Electric Utility Engineering
Department**



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Miscellaneous Publication - National Bureau of Standards United States. National Bureau of Standards,1934 National Directory of Commodity Specifications United States. National Bureau of Standards,1945 **National Bureau of Standards Miscellaneous Publication** ,1945 **Repair and Conversion of Small Distribution Transformers** United States. Rural Electrification Administration,1953 **NBS Special Publication** ,1945 Index of Specifications and Standards , **Students' Guide to Submarine Cable Testing** H. K. C. Fisher,J. C. H. Darby,1898 Repair and Conversion of Small Distribution Transformers ,1953 **Transient Analysis of Power Systems** Juan A. Martinez-Velasco,2020-02-10 A hands on introduction to advanced applications of power system transients with practical examples **Transient Analysis of Power Systems A Practical Approach** offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications involving the creation of custom made models and tools and the application of multicore environments for advanced studies The authors cover the general aspects of the transient analysis such as modelling guidelines solution techniques and capabilities of a transient tool The book also explores the usual application of a transient tool including over voltages power quality studies and simulation of power electronics devices In addition it contains an introduction to the transient analysis using the ATP All the studies are supported by practical examples and simulation results This important book Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building custom made models and libraries of modules supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time domain simulation tools Includes a companion website with data input files of examples presented case studies and power point presentations used to support cases studies Written for EMTP users electrical engineers **Transient Analysis of Power Systems** is a hands on and practical guide to advanced applications of power system transients that includes a range of practical examples **The United States Catalog** Mary Burnham,Carol Hurd,1928 **Electrical News. Generation, Transmission and Application of Electricity** ,1924 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1972 *Quick Reference to IEEE Standards* ,1986 A complete index of all terms in IEEE Standards and ANSI Standards published by IEEE together with tables of contents of all the documents indexed Cover **Electrical News** ,1924 Power Engineering ,1970 **The Electrical Trade** ,1903 *Electric Utility Engineering Reference Book: Distribution systems* Westinghouse Electric Corporation. Electric Utility Engineering Department,1965

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