Describe Transformer Construction

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

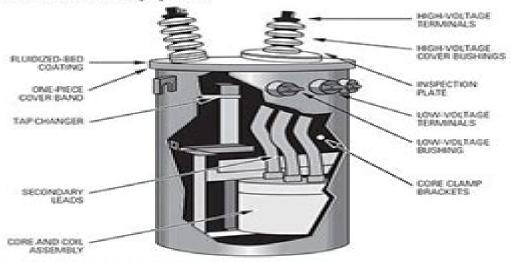


Figure 4-1. Distribution transformer construction.

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 With Diagrams

James H. Harlow

Distribution Transformer Testing Guide With Diagrams:

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Electric Power Transformer Engineering James H. Harlow, 2007-05-30 Combining Federal Register ,2013-04 select chapters from Grigsby's standard setting The Electric Power Engineering Handbook with several chapters not found in the original work Electric Power Transformer Engineering became widely popular for its comprehensive tutorial style treatment of the theory design analysis operation and protection of power transformers For its GB. GB/T. GBT Chinese Standard(English-translated version) - Catalog002 CODEOFCHINA - Dr. Meng Yongye ,2018-05-04 All English translated Chinese codes are available at www codeofchina com Newnes Electrical Power Engineer's Handbook D.F. Warne, 2005-06-02 The second edition of this popular engineering reference book previously titles Newnes Electrical Engineer's Handbook provides a basic understanding of the underlying theory and operation of the major classes of electrical equipment With coverage including the key principles of electrical engineering and the design and operation of electrical equipment the book uses clear descriptions and logical presentation of data to explain electrical power and its applications Each chapter is written by leading professionals and academics and many sections conclude with a summary of key standards The new edition is updated in line with recent advances in EMC power quality and the structure and operation of power systems making Newnes Electrical Power Engineer's Handbook an invaluable guide for today's electrical power engineer A unique concise reference book with contributions from eminent professionals in the field Provides straightforward and practical explanations plus key information needed by engineers on a day to day basis Includes a summary of key standards at the end of each chapter **NBS Special Publication**, 1945 *Electrical Engineering* R.K. Rajput, 2007

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