



Lightning arresters are sometimes called over-voltage protectors, which are mainly used to protect electrical equipment from high transient over-voltage hazards, that is, from damage caused by lightning over-voltage and operating over-voltage.



- In addition, a low-voltage lightning arrester must be installed in the low-voltage side distribution box of the distribution transformer to prevent the intrusion of low-voltage reverse conversion waves and low-voltage side lightning waves, and protect the distribution transformer and its total metering device.



Distribution Transformer Guide

**Thomas C. Elliott, Kao Chen, Robert
Swanekamp**

Distribution Transformer Guide:

Power and Distribution Transformers K.R.M. Nair, 2021-02-11 This book is based on the author's 50 years experience in the power and distribution transformer industry. The first few chapters of the book provide a step by step procedures of transformer design. Engineers without prior knowledge or exposure to design can follow the procedures and calculation methods to acquire reasonable proficiency necessary to designing a transformer. Although the transformer is a mature product engineers working in the industry need to understand its fundamentals and design to enable them to offer products to meet the challenging demands of the power system and the customer. This book can function as a useful guide for practicing engineers to undertake new designs, cost optimization, design automation etc without the need for external help or consultancy. The book extensively covers the design processes with necessary data and calculations from a wide variety of transformers including dry type, cast resin transformers, amorphous core transformers, earthing transformers, rectifier transformers, auto transformers, transformers for explosive atmospheres and solid state transformers. The other subjects covered include carbon footprint calculation of transformers, condition monitoring of transformers and design optimization techniques. In addition to being useful for the transformer industry, this book can serve as a reference for power utility engineers, consultants, research scholars and teaching faculty at universities.

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Westinghouse Electric Corporation. Distribution Transformer Division, 1986 [Distribution Transformer Handbook](#), 2020

Distribution Transformer Handbook, 2001 [Distribution Transformer Manual](#) General Electric Company. Commercial Distribution Transformer Department, General Electric Company. Residential Distribution Transformer Department, General Electric Company. Distribution Protective Equipment Department, 19?? [**Distribution Transformer Manual**](#) General Electric Company. Distribution Transformer Products Department, General Electric Company. Protective Equipment Products Department, 1975* [**The Electric Power Engineering Handbook - Five Volume Set**](#) Leonard L. Grigsby, 2018-12-14

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