



Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition

Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja

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Updating and reorganizing the valuable information in the first edition to enhance logical development, *Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition* remains focused on the basic physical concepts behind transformer design and operation. Starting with first principles, this book develops the reader's understanding of the rationale behind design practices by illustrating how basic formulae and modeling procedures are derived and used.

Simplifies presentation and emphasizes fundamentals, making it easy to apply presented results to your own designs

The models, formulae, and methods illustrated in this book cover the crucial electrical, mechanical, and thermal aspects that must be satisfied in transformer design. The text also provides detailed mathematical techniques that enable users to implement these models on a computer. The authors take advantage of the increased availability of electromagnetic 2D and 3D finite element programs, using them to make calculations, especially in conjunction with the impedance boundary method for dealing with eddy current losses in high-permeability materials such as tank walls.

Includes new or updated material on:

- Multi terminal transformers
- Phasors and three-phase connections
- Impulse generators and air core reactors
- Methodology for voltage breakdown in oil
- Zig-zag transformers
- Winding capacitances
- Impulse voltage distributions
- Temperature distributions in the windings and oil
- Fault type and fault current analyses

Although the book's focus is on power transformers, the transformer circuit models presented can be used in electrical circuits, including large power grids. In addition to the standard transformer types, the book explores multi-terminal transformer models, which allow complicated winding interconnections and are often used in phase shifting and rectifying applications. With its versatile coverage of transformers, this book can be used by practicing design and utility engineers, students, and anyone else who requires knowledge of design and operational characteristics.

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