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covering the fundamental theory of electric power transformers this book provides the background required to understand the basic operation of electromagnetic induction as applied to transformers

recent catastrophic blackouts have exposed major vulnerabilities in the existing generation transmission and distribution systems of transformers widely used for energy transfer measurement protection and signal coupling as a result the reliability of the entire power system is now uncertain and many blame severe underinvestment aging technology and a conservative approach to innovation composed of contributions from noted industry experts around the world transformers analysis design and measurement offers invaluable information to help designers and users overcome these and other challenges associated with the design construction application and analysis of transformers this book is divided into three sections to address contemporary economic design diagnostic and maintenance aspects associated with power instrument and high frequency transformers topics covered include design considerations capability to withstand short circuits insulation problems stray losses screening and local excessive heating hazard shell type and superconducting transformers links between design and maintenance component related diagnostics and reliability economics of life cycle cost design review and risk management methods parameter measurement and prediction this book is an essential tool for understanding and implementing solutions that will ensure improvements in the development maintenance and life cycle management of optimized transformers this will lead to enhanced safety and reliability and lower costs for the electrical supply illustrating the need for close cooperation between users and manufacturers of transformers this book outlines ways to achieve man

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 salculation 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

although they are some of the main components in the design of power electronic converters the design of inductors and transformers is often still a trial and error process due to a long working in time for these components inductors and transformers for power electronics takes the guesswork out of the design and testing of these systems and provides a broad overview of all aspects of design inductors and transformers for power electronics uses classical methods and numerical tools such as the finite element method to provide an overview of the basics and technological aspects of design the authors present a fast approximation method useful in the early design as well as a more detailed analysis they address design aspects such as the magnetic core and winding eddy currents insulation thermal design parasitic effects and measurements the text contains suggestions for improving designs in specific cases models of thermal behavior with various levels of complexity and several loss and thermal measurement techniques this book offers in a single reference a concise representation of the large body of literature on the subject and supplies tools that designers desperately need to improve the accuracy and performance of their designs by eliminating trial and error

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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