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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

this handbook offers a comprehensive source for electrical power professionals it covers all elementary topics related to the design development operation and management of power systems and provides an insight from worldwide key players in the electrical power systems industry edited by a renowned leader and expert in power systems the book highlights international professionals longstanding experiences and addresses the requirements of practitioners but also of newcomers in this field in finding a solution for their problems the structure of the book follows the physical structure of the power system from the fundamentals through components and equipment to the overall system in addition the handbook covers certain horizontal matters for example energy fundamentals high voltage engineering and high current and contact technology and thus intends to become the major one stop reference for all issues related to the electrical power system

electrical mechanical and safety requirements of ventilated non ventilated and sealed dry type distribuion and power transformers or auto transformers single and polyphase with a voltage of 601 v or higher in the highest voltage winding are described

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