



# Transformer Engineering: Design, Technology, and Diagnostics, Second Edition

By S.V. Kulkarni, S.A. Khaparde

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**Transformer Engineering: Design, Technology, and Diagnostics, Second Edition** By S.V. Kulkarni, S.A. Khaparde

**Transformer Engineering: Design, Technology, and Diagnostics, Second Edition** helps you design better transformers, apply advanced numerical field computations more effectively, and tackle operational and maintenance issues. Building on the bestselling *Transformer Engineering: Design and Practice*, this greatly expanded second edition also emphasizes diagnostic aspects and transformer-system interactions.

## What's New in This Edition

- Three new chapters on electromagnetic fields in transformers, transformer-system interactions and modeling, and monitoring and diagnostics
- An extensively revised chapter on recent trends in transformer technology
- An extensively updated chapter on short-circuit strength, including failure mechanisms and safety factors
- A step-by-step procedure for designing a transformer
- Updates throughout, reflecting advances in the field

A blend of theory and practice, this comprehensive book examines aspects of transformer engineering, from design to diagnostics. It thoroughly explains electromagnetic fields and the finite element method to help you solve practical problems related to transformers. Coverage includes important design challenges, such as eddy and stray loss evaluation and control, transient response, short-circuit withstand and strength, and insulation design. The authors also give pointers for further research. Students and engineers starting their careers will appreciate the sample design of a typical power transformer.

Presenting in-depth explanations, modern computational techniques, and emerging trends, this is a valuable reference for those working in the transformer industry, as well as for students and researchers. It offers guidance in optimizing and enhancing transformer design, manufacturing, and condition monitoring to meet the challenges of a highly competitive market.

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## **Editorial Review**

Review

### **Praise for the Previous Edition**

"... the timely publication of this book is quite a welcome delight. ... the authors provide in-depth coverage on both theory and practical application of modern computational techniques in transformer engineering. ... this book is an easy-to-use reference source and is recommended for academic and research libraries."

*?E-Streams*

"... contains practical information used in the industry."

*?IEEE Electrical Insulation Magazine*

"Authors' personal research and their experience in industry and in education is the source for the numerous worked examples?very useful for didactic purposes. ... More than 400 references are mentioned, spread in the 12 chapters. The book is written in an impressively deep analytical spirit."

*?IEEE Power Electronics Society Newsletter*

About the Author

**S.V. Kulkarni** is a professor in the Department of Electrical Engineering, Indian Institute of Technology Bombay. Previously, he worked at Crompton Greaves Limited and specialized in the design and development of transformers up to 400 kV class. He received the Young Engineer Award from the Indian National Academy of Engineering (INAE) for his contributions to electromagnetic field computations and high voltage insulation design in transformers. Professor Kulkarni has organized a number of training courses on the topics of transformers and computational electromagnetics for industry and academia in India. He has also delivered tutorials and keynote lectures in international conferences/workshops on transformers. He is a senior member of the IEEE. He is also a Fellow of INAE and an editor of *IEEE Transactions on Power Delivery*.

**S.A. Khaparde** is a professor in the Department of Electrical Engineering, Indian Institute of Technology Bombay. He received his Ph.D. in 1981 from the Indian Institute of Technology Kharagpur. He is a member of the advisory committee to the Maharashtra Electricity Regulatory Commission (MERC), India and the Indian Energy Exchange. Professor Khaparde is a senior member of the IEEE and editor of the *International Journal of Emerging Electrical Power Systems*. He is also a consultant to MERC, the Indian Energy Exchange, and Power Grid Corporation of India Ltd, etc. He is a BIS (Bureau of Indian Standards) LITD-10 Committee Member and Chair of the Working Group on Common Information Model (CIM). He is member of IEC TC57 for working groups 13 and 16 representing India.

## **Users Review**

**From reader reviews:**

**William Smith:**

The knowledge that you get from Transformer Engineering: Design, Technology, and Diagnostics, Second Edition will be the more deep you rooting the information that hide inside words the more you get serious about reading it. It doesn't mean that this book is hard to know but Transformer Engineering: Design, Technology, and Diagnostics, Second Edition giving you enjoyment feeling of reading. The copy writer conveys their point in selected way that can be understood by simply anyone who read this because the author of this publication is well-known enough. This specific book also makes your own vocabulary increase well. So it is easy to understand then can go along, both in printed or e-book style are available. We suggest you for having that Transformer Engineering: Design, Technology, and Diagnostics, Second Edition instantly.

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**Jeremy Reed:**

In this time globalization it is important to someone to acquire information. The information will make anyone to understand the condition of the world. The healthiness of the world makes the information simpler to share. You can find a lot of sources to get information example: internet, newspapers, book, and soon. You will see that now, a lot of publisher this print many kinds of book. The actual book that recommended for you is Transformer Engineering: Design, Technology, and Diagnostics, Second Edition this guide consist a lot of the information of the condition of this world now. This kind of book was represented how do the world has grown up. The language styles that writer use to explain it is easy to understand. Typically the writer made some research when he makes this book. This is why this book acceptable all of you.

**Emily Boyd:**

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