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TECHNOLOGY, AND DIAGNOSTICS,  
SECOND EDITION BY S.V. KULKARNI, S.A.  
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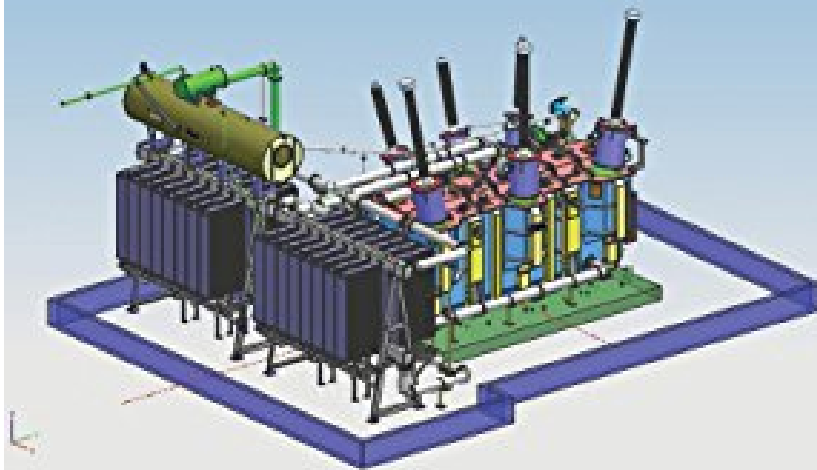
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# Transformer Engineering

Design, Technology, and Diagnostics

Second Edition



 **CRC Press**  
Taylor & Francis Group

**S.V. Kulkarni**  
**S.A. Khaparde**

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"... 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."

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## 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

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## 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

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