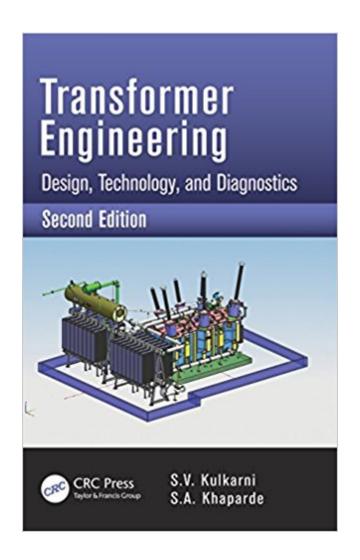


### The book was found

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





## **Synopsis**

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. Whatâ ™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.

# **Book Information**

Hardcover: 750 pages

Publisher: CRC Press; 2 edition (September 6, 2012)

Language: English

ISBN-10: 1439853770

ISBN-13: 978-1439853771

Product Dimensions: 6.1 x 1.6 x 9.2 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #908,214 in Books (See Top 100 in Books) #202 in Books > Engineering &

Transportation > Engineering > Energy Production & Extraction > Electric #275 in Books >

Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design #1915 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics

#### **Customer Reviews**

Praise for the Previous Edition "â | the timely publication of this book is quite a welcome delight. â | the authors provide in-depth coverage on both theory and practical application of modern computational techniques in transformer engineering. â | this book is an easy-to-use reference source and is recommended for academic and research libraries. "â •E-Streams "â | contains practical information used in the industry. "â •IEEE Electrical Insulation Magazine "Authors' personal research and their experience in industry and in education is the source for the numerous worked examples â •very useful for didactic purposes. â | More than 400 references are mentioned, spread in the 12 chapters. The book is written in an impressively deep analytical spirit. "â •IEEE Power Electronics Society Newsletter

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.

One of the best book about power transformers on the market now. Highly recommended for both students and engineers.

#### Download to continue reading...

Transformer Engineering: Design, Technology, and Diagnostics, Second Edition Rotating Electric Machinery and Transformer Technology (4th Edition) Stallcup's® Generator, Transformer, Motor And Compressor, 2011 Edition Transformer Principles and Applications Semiconductor Laser Engineering, Reliability and Diagnostics: A Practical Approach to High Power and Single Mode Devices Technology in the Law Office, Second Edition (Technology in the Law Office, Second Edition) G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice) Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Introduction to Engineering Design Book 9, Second Edition Engineering Skills and Hovercraft Missions Chemical Engineering Design, Second Edition: Principles, Practice and Economics of Plant and Process Design Lasers for Medical Applications: Diagnostics, Therapy and Surgery (Woodhead Publishing Series in Electronic and Optical Materials) Molecular Diagnostics: Fundamentals, Methods and Clinical Applications Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 7e (Fundamentals of Clinical Chemistry (Tietz)) Spectroscopy and Optical Diagnostics for Gases Commercializing Successful Biomedical Technologies: Basic Principles for the Development of Drugs, Diagnostics and Devices Memory Notebook of Nursing: Pharmacology and Diagnostics Vaccines and Diagnostics for Transboundary Animal Diseases: International Symposium, Ames, Iowa, September 2012: Proceedings (Developments in Biologicals, Vol. 135) Veterinary Vaccines and Diagnostics: 41 (Advances in Veterinary Medicine) Etiology-Based Dental and Craniofacial Diagnostics

Contact Us

DMCA

Privacy

FAQ & Help