

Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition

By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja



Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja

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:

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.

<u>Download</u> Transformer Design Principles: With Applications t ...pdf

<u>Read Online Transformer Design Principles: With Applications ...pdf</u>

<u>Download</u> Transformer Design Principles: With Applications t ...pdf

Read Online Transformer Design Principles: With Applications ...pdf

Download and Read Free Online Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja

Editorial ReviewAbout the Author

Robert M. Del Vecchio received the BS degree in physics from the Carnegie Institute of Technology, Pittsburgh, Pennsylvania, the MS degree in electrical engineering, and the Ph.D. degree in physics from the University of Pittsburgh in 1972. He was a Lecturer in physics at Princeton University, New Jersey, from 1972 to 1976, and an Assistant Professor at the University of Pittsburgh from 1976 to 1978. He then joined the Westinghouse R&D Center, Pittsburgh, where he worked on modeling magnetic materials and electrical devices. He joined North American Transformer (now Waukesha Electric Systems) in 1989, where he developed computer models and transformer design tools. He is a member of the IEEE Power and Energy Society and Magnetics Society. He has served on the IEEE Transformers Committee, the IEC, and a Cigre committee. Currently, he is a consultant.Bertrand Poulin received his Bachelor of Engineering degree in Electrical Engineering from École Polytechnique Université de Montréal in 1978 and his MS degree in High Voltage Engineering in 1988 from the same University. Bertrand started his carreer in a small repair facility for motors, generators and transformers in Montréal in 1978 as a technical advisor. In 1980, he joined the transformer division of ASEA in Varennes, Canada as a test engineer and later as a design and R&D engineer. In 1992, he joined North American Transformer where he was involved in testing and R&D and finally manager of R&D and testing. In 1999, he went back to ABB in Varennes where he holds currently the position of Technical Manager for the Varennes facility and Senior Principal Engineer for the Power Transformer Division of ABB worldwide. He is a member of IEEE Power and Energy Society, an active member of the Transformers Committee, and a registered Professional Engineer in Québec, Canada.Pierre Feghali, PE, MS received his bachelor's degree in Electrical Engineering from Cleveland State University in 1985 and his Master's degree in Engineering Management in 1996 from San Jose State University. He has worked in the transformer industry for over 23 years. He started his career in distribution transformer design at Cooper Power Systems in Zanesville, Ohio. In 1989, he joined North American Transformer in Milpitas, CA where he was a Senior Design Engineer. Between 1997 and 2002, he held multiple positions at the plant including: production control manager, quality and test manager, and plant manager. He is currently Vice President of Business Development and Engineering at North American Substation Services, Inc. He is a Professional Engineer in the state of California and an active member of the IEEE and PES.Dilipkumar M. Shah received his BSEE degree from the M.S. University of Baroda (India) in 1964 and his MSEE degree in Power Systems from the Illinois Institute of Technology (Chicago, Illinois) in 1967. Since 1967 until 1977, he worked as a transformer design engineer at Westinghouse Electric, Delta Star, and Aydin Energy Systems. He joined North American Transformer in 1977 as a senior design engineer and then the engineering manager. He left in 2002 and has been working as a transformer consultant for utilities world wide, covering areas such as design reviews, diagnosing transformer failures, and advising transformer manufacturers on improving their designs and manufacturing practices. Rajendra Ahuja graduated from the Univ. of Indore in India where he received a B.Engg. Hons. (Electrical) degree in 1975. He worked at B.H.E.L. and GEC Alsthom India and was involved in design and development of EHV transformers and in the development of wound-in-shield type windings. He also has experience in the design of special transformers for traction, furnace, phase shifting, and rectifier applications. He joined North American Transformer (now Waukesha Electric Systems) in 1994 as a principal design engineer and became the manager of the testing and development departments. He is currently the vice president of engineering. He is an active member of the Power and Energy Society, the IEEE Transformers Committee, and the IEC. Users ReviewFrom reader reviews:

Eleanor Williams: The book Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition can give more knowledge and also the precise product information about everything you want. Why then must we leave the great thing like a book Transformer Design Principles:

With Applications to Core-Form Power Transformers, Second Edition? Some of you have a different opinion about e-book. But one aim which book can give many information for us. It is absolutely suitable. Right now, try to closer together with your book. Knowledge or information that you take for that, you can give for each other; you may share all of these. Book Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition has simple shape but you know: it has great and large function for you. You can look the enormous world by open and read a publication. So it is very wonderful. Irving Carlin:What do you in relation to book? It is not important to you? Or just adding material when you require something to explain what the ones you have problem? How about your free time? Or are you busy particular person? If you don't have spare time to do others business, it is gives you the sense of being bored faster. And you have free time? What did you do? Everybody has many questions above. They must answer that question mainly because just their can do this. It said that about book. Book is familiar on every person. Yes, it is correct. Because start from on pre-school until university need that Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition to read.

Terrance Bartholomew:Information is provisions for individuals to get better life, information presently can get by anyone from everywhere. The information can be a know-how or any news even a huge concern. What people must be consider whenever those information which is within the former life are difficult to be find than now could be taking seriously which one is appropriate to believe or which one often the resource are convinced. If you have the unstable resource then you buy it as your main information you will have huge disadvantage for you. All those possibilities will not happen throughout you if you take Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition as the daily resource information.

Pamela Dodge: This Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition is great publication for you because the content that is certainly full of information for you who always deal with world and still have to make decision every minute. This kind of book reveal it facts accurately using great manage word or we can claim no rambling sentences inside. So if you are read that hurriedly you can have whole info in it. Doesn't mean it only offers you straight forward sentences but difficult core information with attractive delivering sentences. Having Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition in your hand like obtaining the world in your arm, facts in it is not ridiculous 1. We can say that no e-book that offer you world within ten or fifteen minute right but this guide already do that. So , it is good reading book. Hi Mr. and Mrs. busy do you still doubt that will?

Download and Read Online Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja #JA0S43XB8TO

Read Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja for online ebookTransformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja books to read online.Online Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja ebook PDF downloadTransformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja DocTransformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja MobipocketTransformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja EPubJA0S43XB8TO: Transformer Design Principles: With Applications to Core-Form Power Transformers, Second Edition By Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja