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Electric Power Transformer Engineering James H. Harlow, 2003-08-15 Covering the fundamental theory of electric power transformers this book provides the background required to understand the basic operation of electromagnetic induction as applied to transformers The book is divided into three fundamental groupings one stand alone chapter is devoted to Theory and Principles nine chapters individually treat major *Electric Power Transformer Engineering* James H. Harlow, 2017-12-19 *Electric Power Transformer Engineering* Third Edition expounds the latest information and developments to engineers who are familiar with basic principles and applications perhaps including a hands on working knowledge of power transformers Targeting all from the merely curious to seasoned professionals and acknowledged experts its content is structured to enable readers to easily access essential material in order to appreciate the many facets of an electric power transformer Typically structured in three parts the book illustrates for electrical engineers the relevant theories and principles concepts and mathematics of power transformers Devotes complete chapters to each of 10 particular embodiments of power transformers including power distribution phase shifting rectifier dry type and instrument transformers as well as step voltage regulators constant voltage transformers transformers for wind turbine generators and photovoltaic applications and reactors Addresses 14 ancillary topics including insulation bushings load tap changers thermal performance testing protection audible sound failure analysis installation and maintenance and more As with the other books in the series this one supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material Important chapters have been retained from the second edition most have been significantly expanded and updated for this third installment Each chapter is replete with photographs equations and tabular data and this edition includes a new chapter on transformers for use with wind turbine generators and distributed photovoltaic arrays Jim Harlow and his esteemed group of contributors offer a glimpse into the enthusiastic community of power transformer engineers responsible for this outstanding and best selling work A volume in the *Electric Power Engineering Handbook* Third Edition Other volumes in the set K12642 *Electric Power Generation Transmission and Distribution* Third Edition ISBN 9781439856284 K12648 *Power Systems* Third Edition ISBN 9781439856338 K13917 *Power System Stability and Control* Third Edition 9781439883204 K12650 *Electric Power Substations Engineering* Third Edition 9781439856383 Watch James H Harlow s talk about his book Part One <http://youtu.be/fZNe9L4cux0> Part Two <http://youtu.be/y9ULZ9IM0jE> Part Three http://youtu.be/nqWMjK7Z_dg *Electric Power Transformer Engineering, Second Edition* James H. Harlow, 2007-05-30 Covering the fundamental theory of electric power transformers this book provides the background required to understand the basic operation of electromagnetic induction as applied to transformers **Electric Power Transformer Engineering** James H. Harlow, 2007-05-30 Combining select chapters from Grigsby s standard setting *The Electric Power Engineering Handbook* with several chapters not found in the original work *Electric Power Transformer*

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



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