Transformer

Otto Taylor

J & P Transformer Book Martin Heathcote, 2011-04-01 Maintaining appropriate power systems and equipment expertise is necessary for a utility to support the reliability, availability, and quality of service goals demanded by energy consumers now and into the future. However, transformer talent is at a premium today, and all aspects of the power industry are suffering a diminishing of the supply of knowledgeable and experienced engineers. Now in print for over 80 years since initial publication in 1925 by Johnson & Phillips Ltd, the J & P Transformer Book continues to withstand the test of time as a key body of reference material for students, teachers, and all whose careers are involved in the engineering processes associated with power delivery, and particularly with transformer design, manufacture, testing, procurement, application, operation, maintenance, condition assessment and life extension. Current experience and knowledge have been brought into this thirteenth edition with discussions on moisture equilibrium in the insulation system, vegetable based natural ester insulating fluids, industry concerns with corrosive sulphur in oil, geomagnetic induced current (GIC) impacts, transportation issues, new emphasis on measurement of load related noise, and enhanced treatment of dielectric testing (including Frequency Response Analysis), Dissolved Gas analysis (DGA) techniques and tools, vacuum LTCs, shunt and series reactors, and HVDC converter transformers. These changes in the thirteenth edition together with updates of IEC reference Standards documentation and inclusion for the first time of IEEE reference Standards, provide recognition that the transformer industry and market is truly global in scale. -- From the foreword by Donald J. Fallon Martin Heathcote is a consultant specializing in power transformers, primarily working for utilities. In this context he has established working relationships with transformer manufacturers on several continents. His background with Ferranti and the UK's Central Electricity Generating Board

(CEGB) included transformer design and the management and maintenance of transformer-based systems. * The definitive reference for all involved in designing, installing, monitoring and maintaining high-voltage systems using power transformers (electricity generation and distribution sector; large-scale industrial applications) * The classic reference work on power transformers and their applications: first published in 1925, now brought fully up to date in this thirteenth edition * A truly practical engineering approach to design, monitoring and maintenance of power transformers – in electricity generation, substations, and industrial applications.

Transformer: The Deep Chemistry of Life and Death Nick Lane. 2022-07-12 From the renowned biochemist and author of The Vital Question, an illuminating inquiry into the Krebs cycle and the origins of life. "Nick Lane's exploration of the building blocks that underlie life's big fundamental questions—the origin of life itself, aging, and disease—have shaped my thinking since I first came across his work. He is one of my favorite science writers."—Bill Gates What brings the Earth to life, and our own lives to an end? For decades, biology has been dominated by the study of genetic information. Information is important, but it is only part of what makes us alive. Our inheritance also includes our living metabolic network, a flame passed from generation to generation, right back to the origin of life. In Transformer, biochemist Nick Lane reveals a scientific renaissance that is hiding in plain sight —how the same simple chemistry gives rise to life and causes our demise. Lane is among the vanguard of researchers asking why the Krebs cycle, the "perfect circle" at the heart of metabolism, remains so elusive more than eighty years after its discovery. Transformer is Lane's voyage, as a biochemist, to find the inner meaning of the Krebs cycle—and its reverse—why it is still spinning at the heart of life and death today. Lane reveals the beautiful, violent world within our cells, where hydrogen atoms are stripped from the carbon skeletons of food and fed to the ravenous beast of oxygen. Yet this same cycle, spinning in reverse, also created the chemical building blocks that enabled the emergence of life on our planet. Now it does both. How can the same pathway create and destroy? What might our study of the Krebs cycle teach us about the mysteries of aging and the hardest problem of all, consciousness? Transformer unites the story of our planet with the story of our cells—what makes us the way we are, and how it connects us to the origin of life. Enlivened by Lane's talent for distilling and humanizing complex research, Transformer offers an essential read for anyone fascinated by biology's great mysteries. Life is at root a chemical phenomenon: this is its deep logic.

Natural Language Processing with Transformers, Revised Edition Lewis Tunstall, Leandro von Werra, Thomas Wolf, 2022-05-26 Since their introduction in 2017, transformers have quickly become the dominant architecture for achieving state-of-the-art results on a variety of natural language processing tasks. If you're a data scientist or coder, this practical book -now revised in full color- shows you how to train and scale these large models using Hugging Face Transformers, a Python-based deep learning library. Transformers have been used to write realistic news stories, improve Google Search queries, and even create chatbots that tell corny jokes. In this guide, authors Lewis Tunstall, Leandro von Werra, and Thomas Wolf, among the creators of Hugging Face Transformers, use a hands-on approach to teach you how transformers work and how to integrate them in your applications. You'll guickly learn a variety of tasks they can help you solve. Build, debug, and optimize transformer models for core NLP tasks, such as text classification, named entity recognition, and question answering Learn how transformers can be used for cross-lingual transfer learning Apply transformers in real-world scenarios where labeled data is scarce Make transformer models efficient for deployment using techniques such as distillation, pruning, and quantization Train transformers

from scratch and learn how to scale to multiple GPUs and distributed environments

Transformers: A Visual History Jim Sorenson, 2019-11-12 Celebrating 35 years of rare and iconic TRANSFORMERS imagery, this deluxe art book will delight fans of all ages! One of the world's most popular franchises, TRANSFORMERS has been delighting fans since 1984. Now, Hasbro reveals behind-thescenes production sketches, beautifully polished final art, classic posters, and everything in-between. From the obscure to the iconic, Transformers: A Visual History features packaging artwork, animation models, video game designs, comic pages, and production artwork from all six Paramount live-action films! Curated by Transformers archivist Jim Sorenson, this is the most comprehensive collection of Transformers imagery ever assembled. © 2019 Hasbro. All Rights Reserved.

Transformers: Exodus Alex Irvine, 2014-06-11 For twenty-five years the colossal battle between Megatron and Optimus Prime has captivated Transformers fans around the world. Yet the full story of the conflict between the two most famous Transformers—everything that happened before Optimus and Megatron arrived on planet Earth—has always been a mystery . . . until now. Here, for the first time told in its entirety, is the thrilling saga of Optimus and Megatron before they were enemies, before they even knew each other. "Freedom is every Cybertronian's right!" After Megatron utters these immortal words, the caste-bound planet of Cybertron is rocked to its foundations. Megatron, an undefeated gladiator thug, gives voice to the unspoken longings of the oppressed masses—and opens the mind of an insignificant data clerk to possibilities previously unthinkable. Long before becoming the honorable Optimus Prime, Orion Pax is a mere office underling, an unlikely candidate to answer an outlaw's call to revolution. But Orion is determined to meet this defiant enemy of all that Cybertron stands for, no matter what he has to do, or how many laws he has to break.

What happens between Orion Pax and Megatron forever changes the destiny of all Transformers. This gripping, action-packed novel reveals all the loyalties and treacheries, trust and betrayals, deadly violence and shining ideals, as well as the pivotal roles played by other characters, including Starscream, Sentinel Prime, Omega Supreme, and one of the thirteen original Primes, the last link to Cybertron's glorious Golden Age. Discover how meek disciple Orion Pax becomes the fearless leader Optimus Prime; follow the tantalizing clues about the lost Matrix of Leadership and the lore surrounding it; find out why the two allies fighting a corrupt regime suddenly turn on each other, and what triggers their epic war. Transformers: Exodus provides everything fans ever wanted to know about one of the fiercest rivalries of all time.

Transformer Ageing Tapan Kumar Saha, Prithwiraj Purkait, 2017-08-28 A one-stop guide to transformer ageing, presenting industrially relevant state-of-the-art diagnostic techniques backed by extensive research data Offers a comprehensive coverage of transformer ageing topics including insulation materials, condition monitoring and diagnostic techniques Features chapters on smart transformer monitoring frameworks, transformer life estimation and biodegradable oil Highlights industrially relevant techniques adopted in electricity utilities, backed by extensive research

Transformer Otto Taylor, 2006 Transformer Principles and Applications provides a comprehensive overview of transformer operation, maintenance, installation, and troubleshooting. This full-color textbook begins with a thorough discussion of magnets, magnetism, and electromagnetism and explains how these apply to transformer operation. Subsequent chapters include the latest information on how transformers are used to reduce the harmful effects of harmonics and how reactors and isolation transformers are used to improve the power quality available to electronic equipment. This textbook is designed to help the learner understand both fundamental and advanced concepts.

Transformer Principles and Applications presents correct safety procedures in compliance with the National Electrical Coder and NFPA 70Er. It can be used in a classroom learning situation, as a self-study textbook, or as a reference book on advanced transformer wiring connections and applications. A CD-ROM is included with Transformer Principles and Applications and contains information to supplement the textbook. Click on the image of the CD below to view the CD Sampler.

Transformers and Generators Uday A. Bakshi, Dr. Mayuresh V. Bakshi, 2020-11-01 The importance of transformers and generators is well known in the various engineering fields. The book provides comprehensive coverage of the various types of transformers, d.c. generators and synchronous generators (alternators). The book starts with the brief review of single phase transformer. It continues to discuss no load and on load performance of transformers, phasor diagrams, equivalent circuit, voltage regulation and all day efficiency of transformer. The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book. The chapter on three phase transformer provides the detailed discussion of construction, three phase transformer connections and phasor groups. The book also explains parallel operation of transformers, tap changing transformer, autotransformers, cooling of transformers and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics and applications. The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction, winding details, e.m.f. equation and effect of harmonics on induced e.m.f. The book then explains the concept of armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise explanation and simple

techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Power and Distribution Transformers K.R.M. Nair, 2021-02-12 This book is based on the author's 50+ years experience in the power and distribution transformer industry. The first few chapters of the book provide a step-by-step procedures of transformer design. Engineers without prior knowledge or exposure to design can follow the procedures and calculation methods to acquire reasonable proficiency necessary to designing a transformer. Although the transformer is a mature product, engineers working in the industry need to understand its fundamentals oand design to enable them to offer products to meet the challenging demands of the power system and the customer. This book can function as a useful guide for practicing engineers to undertake new designs, cost optimization, design automation etc., without the need for external help or consultancy. The book extensively covers the design processes with necessary data and calculations from a wide variety of transformers, including dry-type cast resin transformers, amorphous core transformers, earthing transformers, rectifier transformers, auto transformers, transformers for explosive atmospheres, and solid-state transformers. The other subjects covered include, carbon footprint salculation of transformers, condition monitoring of transformers and design optimization techniques. In addition to being useful for the transformer

industry, this book can serve as a reference for power utility engineers, consultants, research scholars, and teaching faculty at universities.

Lou Reed's Transformer Ezra Furman, 2018-04-19 Transformer, Lou Reed's most enduringly popular album, is described with varying labels: it's often called a glam rock album, a proto-punk album, a commercial breakthrough for Lou Reed, and an album about being gay. And yet, it doesn't neatly fit into any of these descriptors. Buried underneath the radio-friendly exterior lie coded confessions of the subversive, wounded intelligence that gives this album its staying power as a work of art. Here Lou Reed managed to make a fun, accessible rock'n'roll record that is also a troubled meditation on the ambiguitiessexual, musical and otherwise-that defined his public persona and helped make him one of the most fascinating and influential figures in rock history. Through close listening and personal reflections, songwriter Ezra Furman explores Reed's and Transformer's unstable identities, and the secrets the songs challenge us to uncover.

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 Engineering became widely popular for its comprehensive, tutorial-style treatment of the theory, design, analysis, operation, and protection of power transformers. For its

Transformers Rescue Bots: Reading Adventures
Hasbro,2015-06-02 This bindup of illustrated, television showbased readers is sure to thrill younger Transformers fans!
Includes Meet Heatwave, Meet Chase, Meet Blades, Meet
Boulder, Team of Heroes, and Meet Optimus Primal. © 2015
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 ${\underline{\bf Transformers\ for\ Single\ and\ Multiphase\ Currents}}\ Gisbert\ Kapp, 1896$

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. Topically 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, phaseshifting, 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

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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 majo

Mastering Transformers Savaş Yıldırım, Meysam Asgari-Chenaghlu, 2021-09-15 Take a problem-solving approach to learning all about transformers and get up and running in no time by implementing methodologies that will build the future of NLP Key Features Explore quick prototyping with up-to-date Python libraries to create effective solutions to industrial problems Solve advanced NLP problems such as named-entity recognition, information extraction, language generation, and conversational AI Monitor your model's performance with the help of BertViz, exBERT, and TensorBoard Book DescriptionTransformer-based language models have dominated natural language processing (NLP) studies and have now become a new paradigm. With this book, you'll learn how to build various transformer-based NLP applications using the Python Transformers library. The book gives you an introduction to Transformers by showing you how to write your first hello-world program. You'll then learn how a tokenizer works and how to train your own tokenizer. As you advance, you'll explore the architecture of autoencoding models,

such as BERT, and autoregressive models, such as GPT. You'll see how to train and fine-tune models for a variety of natural language understanding (NLU) and natural language generation (NLG) problems, including text classification, token classification, and text representation. This book also helps you to learn efficient models for challenging problems, such as long-context NLP tasks with limited computational capacity. You'll also work with multilingual and cross-lingual problems, optimize models by monitoring their performance, and discover how to deconstruct these models for interpretability and explainability. Finally, you'll be able to deploy your transformer models in a production environment. By the end of this NLP book, you'll have learned how to use Transformers to solve advanced NLP problems using advanced models. What you will learn Explore state-of-the-art NLP solutions with the Transformers library Train a language model in any language with any transformer architecture Fine-tune a pretrained language model to perform several downstream tasks Select the right framework for the training, evaluation, and production of an end-to-end solution Get hands-on experience in using TensorBoard and Weights & Biases Visualize the internal representation of transformer models for interpretability Who this book is for This book is for deep learning researchers, hands-on NLP practitioners, as well as ML/NLP educators and students who want to start their journey with Transformers. Beginner-level machine learning knowledge and a good command of Python will help you get the best out of this book.

Transformers for Natural Language Processing Denis Rothman, 2021-01-29 Publisher's Note: A new edition of this book is out now that includes working with GPT-3 and comparing the results with other models. It includes even more use cases, such as casual language analysis and computer vision tasks, as well as an introduction to OpenAI's Codex. Key Features Build and implement state-of-the-art language models, such as the original Transformer, BERT, T5, and GPT-2, using concepts that

outperform classical deep learning modelsGo through hands-on applications in Python using Google Colaboratory Notebooks with nothing to install on a local machineTest transformer models on advanced use casesBook Description The transformer architecture has proved to be revolutionary in outperforming the classical RNN and CNN models in use today. With an apply-asyou-learn approach, Transformers for Natural Language Processing investigates in vast detail the deep learning for machine translations, speech-to-text, text-to-speech, language modeling, question answering, and many more NLP domains with transformers. The book takes you through NLP with Python and examines various eminent models and datasets within the transformer architecture created by pioneers such as Google, Facebook, Microsoft, OpenAI, and Hugging Face. The book trains you in three stages. The first stage introduces you to transformer architectures, starting with the original transformer, before moving on to RoBERTa, BERT, and DistilBERT models. You will discover training methods for smaller transformers that can outperform GPT-3 in some cases. In the second stage, you will apply transformers for Natural Language Understanding (NLU) and Natural Language Generation (NLG). Finally, the third stage will help you grasp advanced language understanding techniques such as optimizing social network datasets and fake news identification. By the end of this NLP book, you will understand transformers from a cognitive science perspective and be proficient in applying pretrained transformer models by tech giants to various datasets. What you will learnUse the latest pretrained transformer modelsGrasp the workings of the original Transformer, GPT-2, BERT, T5, and other transformer modelsCreate language understanding Python programs using concepts that outperform classical deep learning modelsUse a variety of NLP platforms, including Hugging Face, Trax, and AllenNLPApply Python, TensorFlow, and Keras programs to sentiment analysis, text summarization, speech recognition,

machine translations, and moreMeasure the productivity of key transformers to define their scope, potential, and limits in productionWho this book is for Since the book does not teach basic programming, you must be familiar with neural networks, Python, PyTorch, and TensorFlow in order to learn their implementation with Transformers. Readers who can benefit the most from this book include experienced deep learning & NLP practitioners and data analysts & data scientists who want to process the increasing amounts of language-driven data.

Transformer Design Principles Robert M. Del Vecchio, Bertrand Poulin, Pierre T. Feghali, Dilipkumar M. Shah, Rajendra Ahuja, 2017-12-19 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: Multi terminal transformers Phasors and three-phase connections Impulse generators and air core reactors Methodology for voltage breakdown in oil Zig-zag transformers

Winding capacitances Impulse voltage distributions Temperature distributions in the windings and oil 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.

The Technology of Instrument Transformers Ruthard Minkner, Joachim Schmid, 2021-09-24 Existing instrument transformer technologies as well as new measuring principles for current and voltage measurement are described in this book. The properties of conventional current and voltage transformer as well as the dimensioning are discussed in details out of the long experience of the authors. Especially the dielectric dimensioning and the used materials are discussed. Beside this an overview over new modern measuring principles is given and the technology of low-power instrument transformer, and RC-dividers are shown.

Transformer Engineering S.V. Kulkarni,S.A.
Khaparde,2017-12-19 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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while play something else at house and even in your workplace. consequently easy! So, are you question? Just exercise just what we present below as capably as review **Transformer** what you like to read!

Table of Contents Transformer

- 1. Understanding the eBook Transformer
 - The Rise of Digital Reading Transformer
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Transformer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Transformer
 - User-Friendly Interface
- 4. Exploring eBook

Recommendations from Transformer

- Personalized Recommendations
- Transformer User Reviews and Ratings
- Transformer and Bestseller Lists
- 5. Accessing Transformer Free and Paid eBooks
 - Transformer Public Domain eBooks
 - Transformer eBook
 Subscription
 Services
 - Transformer Budget-Friendly Options
- 6. Navigating Transformer eBook Formats
 - ePub, PDF, MOBI, and More
 - Transformer
 Compatibility with
 Devices
 - Transformer
 Enhanced eBook

Features

- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Transformer
 - Highlighting and Note-Taking
 Transformer
 - InteractiveElementsTransformer
- 8. Staying Engaged with Transformer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Transformer
- 9. Balancing eBooks and Physical Books Transformer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Transformer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain

- Minimizing Distractions
- Managing Screen
 Time
- 11. Cultivating a Reading Routine Transformer
 - Setting Reading Goals Transformer
 - Carving Out
 Dedicated Reading
 Time
- 12. Sourcing Reliable Information of Transformer
 - Fact-Checking eBook Content of Transformer
 - DistinguishingCredible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring
 Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia
 Elements
 - Interactive and Gamified eBooks

Transformer Introduction

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