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Alternating Current Machines Jul 28 2020

Continuous and Alternating Current Machinery Apr 17 2022

[Machinery's Reference Series ...](#) May 26 2020

[Alternating Current Machinery](#) Jun 19 2022

Dynamo Electric Machinery Feb 03 2021 Excerpt from Dynamo Electric Machinery: Its Design, Construction, and Operation Direct-Current Machines This book is intended to be used primarily in connection with instruction on courses of electrical engineering in institutions for technical education. It is laid out on the lines of the lectures and the instruction as given in the Polytechnic Institute of Brooklyn. It is intended equally as much for the general reader, who is seriously looking for information concerning dynamo electrical machinery of the types discussed, as well as a book of reference for engineers. The first two chapters are devoted to a brief but logical discussion of the electrical and magnetic laws and facts upon which the operation of this class of machinery depends. Calculus methods have been employed in a few places in these chapters, but the results arrived at by use of them are in such a form that they can be utilized by the reader who is unfamiliar with the processes of the calculus. In the chapter on design it has seemed advisable to express the flux density in lines per square centimeter. Both the square centimeter and the square inch are used in practice. The alteration of the formulas to square inch units is obviously simple. We wish to express our thanks to the various manufacturing companies who have so courteously given information, and who have kindly loaned electrotypes of their apparatus. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Electrical machine design Mar 28 2023

Direct-current Machinery Oct 11 2021

Cyclopedia of Applied Electricity Jun 26 2020

Machine Learning Dec 21 2019 One of the currently most active research areas within Artificial Intelligence is the field of Machine Learning. which involves the study and development of computational models of learning processes. A major goal of research in this field is to build computers capable of improving their performance with practice and of acquiring knowledge on their own. The intent of this book is to provide a snapshot of this field through a broad, representative set of easily assimilated short papers. As such, this book is intended to complement the two volumes of Machine Learning: An Artificial Intelligence Approach (Morgan-Kaufman Publishers), which provide a smaller number of in-depth research papers. Each of the 77 papers in the present book summarizes a current research effort, and provides references to longer expositions appearing elsewhere. These papers cover a broad range of topics, including research on analogy, conceptual clustering, explanation-based generalization, incremental learning, inductive inference, learning apprentice systems, machine discovery, theoretical models of learning, and applications of machine learning methods. A subject index is provided to assist in locating research related to specific topics. The majority of these papers were collected from the participants at the Third International Machine Learning Workshop, held June 24-26, 1985 at Skytop Lodge, Skytop, Pennsylvania. While the list of research projects covered is not exhaustive, we believe that it provides a representative sampling of the best ongoing work in the field, and a unique perspective on where the field is and where it is headed.

[Direct-current Machinery](#) Apr 24 2020

Alternating Current Machines Jan 14 2022

Cyclopedia of Applied Electricity: Alternating current machinery Aug 09 2021

[Theory and Operation of Direct-current Machinery](#) Nov 12 2021

[Principles of Alternating Current Machinery](#) Sep 22 2022

[Alternating-current Machinery](#) Jan 26 2023

Design of Direct-Current Machines; Design of Transformers; Design of Alternating-Current Machines Oct 31 2020 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The General Theory of Alternating Current Machines Jul 08 2021 The book on The General Theory of Electrical Machines, by B. Adkins, which was published in 1957, has been well received, as a manual containing the theories on which practical methods of calculating machine performance can be based, and as a text-book for advanced students. Since 1957, many important developments have taken place in the practical application of electrical machine theory. The most important single factor in the development has been the increasing availability of the digital computer, which was only beginning to be used in the solution of machine and power system problems in 1957. Since most of the recent development, particularly that with which the authors have been concerned, has related to a. c. machines, the present book, which is in other respects an up-to-date version of the earlier book, deals primarily with a. c. machines. The second chapter on the primitive machine does deal to some extent with the d. c. machine, because the cross-field d. c. generator serves as an introduction to the two-axis theory and can be used to provide a simple explanation of some of the mathematical methods. The equations also apply directly to a. c. commutator machines. The use of the word 'general' in the title has been criticized. It was never intended to imply that the treatment was comprehensive in the sense that every possible type of machine and problem was dealt with.

Electrical Machines and Drives Feb 21 2020 This book aims to offer a thorough study and reference textbook on electrical machines and drives. The basic idea is to start from the pure electromagnetic principles to derive the equivalent circuits and steady-state equations of the most common electrical machines (in the first parts). Although the book mainly concentrates on rotating field machines, the first two chapters are devoted to transformers and DC commutator machines. The chapter on transformers is included as an introduction to induction and synchronous machines, their electromagnetics and equivalent circuits. Chapters three and four offer an in-depth study of induction and synchronous machines, respectively. Starting from their electromagnetics, steady-state equations and equivalent circuits are derived, from which their basic properties can be deduced. The second part discusses the main power-electronic supplies for electrical drives, for example rectifiers, choppers, cycloconverters and inverters. Much attention is paid to PWM techniques for inverters and the resulting harmonic content in the output waveform. In the third part, electrical drives are discussed, combining the traditional (rotating field and DC commutator) electrical machines treated in the first part and the power electronics of part two. Field orientation of induction and synchronous machines are discussed in detail, as well as direct torque control. In addition, also switched reluctance machines and stepping motors are discussed in the last chapters. Finally, part 4 is devoted to the dynamics of traditional electrical machines. Also for the dynamics of induction and synchronous machine drives, the electromagnetics are used as the starting point to derive the dynamic models. Throughout part 4, much attention is paid to the derivation of analytical models. But, of course, the basic dynamic properties and probable causes of instability of induction and synchronous machine drives are discussed in detail as well, with the derived models for stability in the small as starting point. In addition to the study of the stability in the small, a chapter is devoted to large-scale dynamics as well (e.g. sudden short-circuit of synchronous machines). The textbook is used as the course text for the Bachelor's and Master's programme in electrical and mechanical engineering at the Faculty of Engineering and Architecture of Ghent University. Parts 1 and 2 are taught in the basic course 'Fundamentals of Electric Drives' in the third bachelor. Part 3 is used for the course 'Controlled Electrical Drives' in the first master, while Part 4 is used in the specialised master on electrical energy.

Direct Current Machines Mar 24 2020

The Performance and Design of Alternating Current Machines Jan 22 2020

Alternating-current Machinery Dec 13 2021

Alternating Current Machines Sep 29 2020

Electrical Machine Design Dec 25 2022

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Alternating Current Machinery Nov 24 2022

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Alternating-current Machinery Aug 21 2022

Continuous and Alternating Current Machinery Jun 07 2021 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Principles of Direct Current Machines (Classic Reprint) Mar 04 2021 Excerpt from Principles of Direct Current Machines This book has been prepared with the object of placing before junior and senior students of

electrical engineering a reasonably complete treatment of the fundamental principles that underly the design and operation of all types of direct-current machinery. Instead of attempting to touch the "high spots" in the whole field of direct-current engineering, attention has been concentrated upon certain important features that are ordinarily dismissed with little more than passing mention, but which, in the opinion of the author, are vital to a thorough grasp of the subject. For example, the book will be found to contain in Chapter III a full derivation of the rules covering armature windings (following Professor Arnold), in addition to the usual description of typical windings; Chapters VI and VII include a considerable amount of new material concerning the operating characteristics of generators and motors, the treatment being largely graphical and including the use of three-dimensional diagrams for depicting the mutual relationships among all of the variables; and in Chapters VIII and IX there has been developed a much more extensive treatment of the important subject of commutation than has been heretofore easily accessible to students of the type for whom the book is intended. In the selection and arrangement of the material dealing with commutation, care has been exercised to eliminate those minute details and excessive refinements that are more likely to confuse than to clarify. Although the methods of the calculus have been freely used throughout the book, a conscious effort has been made to give special prominence to the physical concepts of which the equations are merely the short-hand expressions; to this end, the mathematical analysis has been preceded, wherever possible, by a full and copiously illustrated discussion of the physical facts of the problem and their relations to one another. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

[Operation, Construction, and Functionality of Direct Current Machines](#) Aug 29 2020 Direct current machines are a quickly evolving domain whose applications affect many aspects of modern life from computers and printers to toys, electric vehicles, and traction applications. As their many uses continue to grow, it has become apparent that understanding these machines is the key to understanding our future. Operation, Construction, and Functionality of Direct Current Machines brings together many concepts, from the most basic working principles and construction of DC machines to more advanced topics such as electro-magnetism, armature reaction, parallel operations, and many more. Highlighting theoretical concepts and numerical problems, this book is an essential reference source for students, educators, and anyone interested in the field of electric machines.

Problems in Alternating Current Machinery Oct 23 2022

[Alternating-Current Machines](#) Dec 01 2020 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

[Alternating-current Machinery](#) Mar 16 2022

Alternating Current Machines May 06 2021

Continous and Alternating Current Machinery Problems Jan 02 2021

Principles of Alternating-Current Machinery Apr 29 2023

[Direct and Alternating Current Machinery](#) Feb 27 2023 Includes an introduction to the programmable controller in DC.

[Theory of Alternating Current Machinery](#) Feb 15 2022

Electrical Machine Design Sep 10 2021 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

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