

Direct And Alternating Current Machinery 2nd Edition

A text for college or industrial training courses, stressing characteristics and basic theory rather than design. A knowledge of calculus is not required.

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++++ Electrical Machine Design: The Design And Specification Of Direct And Alternating Current Machinery 2 Alexander Gray McGraw-Hill book company, inc., 1913 Technology & Engineering; Electrical; Electric machinery; Technology & Engineering / Electrical

Excerpt from Electrical Engineering: The Theory and Characteristics of Electrical Circuits and Machinery The second edition contains all the material in the original text but much of it has been rewritten and a great deal of new material added. The more important additions include sections on complex alternating waves and wave analysis, on polyphase alternating current circuits, on the construction of the characteristic curves of direct-current

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generators and motors, on the design of direct and alternating-current machinery, on the Blondel diagram for the synchronous motor, on the symbolic method of analysis of the induction motor, on alternating-current commutator motors, and finally a chapter on electrical measuring instruments. The chapter on direct-current machinery has been entirely rewritten and much enlarged, and to make it complete a short chapter outlining the design of a direct-current generator has been added. 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.

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understanding of the imperfections in the preservation process, and hope you enjoy this valuable book.

Excerpt from *Motor Troubles: The Tracing of Direct-Current and Alternating Current Motor Troubles and the Testing of Direct-Current and Alternating-Current Machinery* N the following pages are given the methods that many years of experience have demonstrated to be simple and effective in the tracing and correcting of direct and alternating-current motor troubles. In addition are given the methods found best for direct and alternating-current generators and motors in order to find out completely. 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.

Excerpt from *Alternating-Current Machine Design Being Instructions for the Design of Motors and Generators* This volume is especially prepared for

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self-instruction in the art of designing alternating-current machinery. Care has been taken to remain strictly within the province of design; the reader being assumed to possess knowledge of the principles of electricity and magnetism, and to be familiar with the theory of operation of electrical machines. The designs are carried out according to methods developed in actual practice and are supplemented by data and dimensions of lines of machines actually built by several of the largest American and European companies. The book is divided into two parts: one treating the design of direct-current machines, and the other that of alternating-current machines; each part being followed by a list of questions which clearly bring out the important points to be remembered. 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.

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Dr. Sheldon and Mason have written a very technical manual for the study of alternate-current machines. It was intended to be used as a textbook for electrical engineering students.

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

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was never intended to imply that the treatment was comprehensive in the sense that every possible type of machine and problem The word is used in the sense that the theory can was dealt with.

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