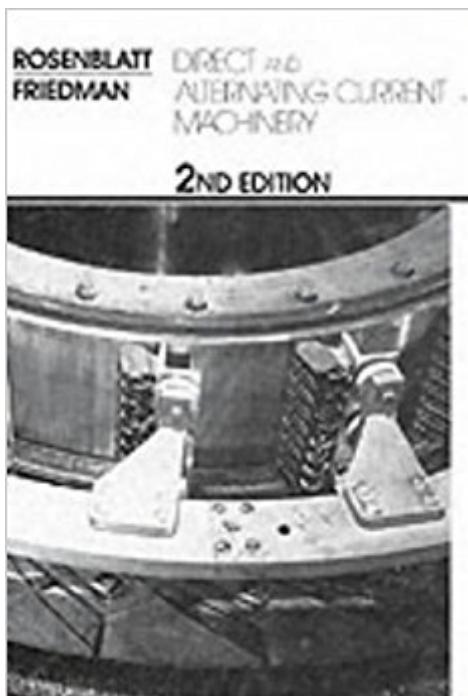


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Direct And Alternating Current Machinery (2nd Edition)



Synopsis

Book by Rosenblatt, FRIEDMAN

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"The fields of automatic control and automation have brought an increasing demand for energy-conversion devices. Industrial plants are continually seeking means to improve production methods and control the quality of their products and services. To satisfy these needs, techniques involving sequential and logic circuits, servomechanisms, static switching, data processing, and electronics to control motors and generators have been rapidly developed and improved. In dealing with control circuits, it is necessary to understand the theory of operation of the device to be controlled. Motors, generators, and transformers are integral parts of many control systems, and it is essential that today's engineer and technician be familiar with this equipment. This book was written for the electrical technology student attending a two-year college, the nonelectrical engineering student attending a four-year college, and those enrolled in industrial training programs. Characteristics and basic theory are stressed rather than design, and so a knowledge of calculus is not required. The authors have had extensive teaching experience in both collegiate and industrial training programs. Based upon this experience, one feature of the text is the arrangement of the

subject matter to afford a great degree of flexibility in classroom presentation. It is therefore suitable for a one-year course for the specialist, or a shorter course as required by a particular curriculum. Another feature is the use of line drawings throughout. Referenced material is thus clearly illustrated without the inclusion of extraneous matter often found in photographs. In many cases where vector diagrams are illustrated, in addition to showing the completed vector diagram with all component vectors, several vector diagrams are drawn which illustrate each step in the logical development of the final diagram. Use of correct technical terminology is stressed throughout. Special consideration, however, is given to simplicity of language in the development of the theory. This should enable the student to make effective use of the text. There are some long mathematical manipulations, but close examination will show that the mathematics is limited to trigonometry and algebra. There are many problems at the ends of the chapters, as well as many illustrative examples interwoven with the theory. Alternative methods of solution are often provided to enable the student to work in the manner best suited to him. Despite this, the emphasis is qualitative rather than quantitative, since the problems and examples are designed to illustrate the application of theory in analyzing and understanding machine performance. Basic controllers are described for both direct- and alternating-current motors, but the field of control engineering and control technology has become so enlarged and specialized in recent years that it requires a course or even a curriculum of its own. However, the descriptions of these basic controllers provide a foundation for the study of more complex control systems. Many texts have already been written on electric machinery, but one more is presented here for a very specific reason. THERE IS A GAP BETWEEN BOOKS WRITTEN FOR THE HIGH SCHOOL AND THOSE for the electrical engineering major. It is hoped that this book will materially assist in filling that gap. The authors wish to express their gratitude to Howard Allen, now of Seton Hall University, for his assistance in reviewing the manuscript. They also wish to thank others of their colleagues who contributed to the preparation of this text. "[from the book preface by the authors Jack Rosenblatt and M. Harold Friedman]

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