

**CONTINUOUS CURRENT  
ARMATURES, THEIR WINDING  
AND CONSTRUCTION. A  
HANDBOOK FOR STUDENTS,  
DESIGNERS, AND PRACTICAL MEN**

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Continuous Current Armatures, Their Winding and Construction. A Handbook for Students, Designers, and Practical Men by C. Kinzbrunner

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**C. KINZBRUNNER**

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## CONTINUOUS CURRENT ARMATURES

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# CONTINUOUS CURRENT ARMATURES

THEIR WINDING AND CONSTRUCTION

A HANDBOOK FOR STUDENTS, DESIGNERS  
AND PRACTICAL MEN

BY

*C. and*  
C. KINZBRUNNER, A.M.I.E.E.

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FORMERLY LECTURER AT THE MANCHESTER TECHNICAL SCHOOL

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### LITERATURE

- "Die Ankerwicklungen und Ankerkonstruktionen," by Professor Arnold.
- "Armature Windings," by Parshall and Hobart.
- "Dynamo Electric Machines," by Wiener.
- "Dynamo-Electric Machinery," by S. P. Thompson.
- "Gleichstrom-Trommelwicklungen," by R. Krause.

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## PREFACE

THIS little volume was originally intended as a translation of Professor Arnold's book on the same subject. It was, however, thought that this subject could be made clearer by omitting a discussion of all those windings which, though possible, are but seldom employed for standard machines of medium size. Thus, while following Professor Arnold's splendid method of discussing the windings, the discussions have been restricted to the commonly employed drum windings only.

By means of the rules given in this volume, the reader will, if necessary, always be able to design any other winding, not actually discussed here. The explanations are given in a very popular manner, so that anybody, possessing an elementary knowledge of the principles of continuous current machines should be able to understand them fully.

Though the work is mainly intended for students and designers, the author feels sure that also the intelligent workman (such as the armature winder, etc.) will be able to understand it, and thus gain a good knowledge of the work in which he is employed.

The author's thanks are due to Mr. Raymond Wood, of Halifax, for his kind assistance in reading the proofs.

C. KINZBRUNNER

*November, 1905.*