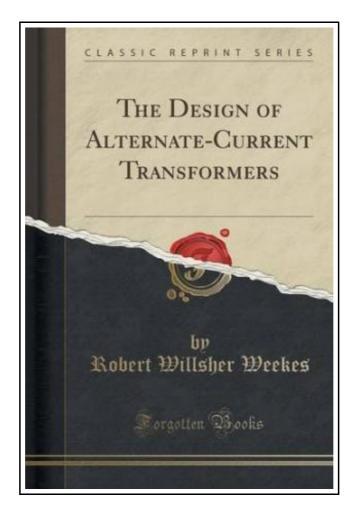
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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from The Design of Alternate-Current Transformers The invention of the alternate-current transformer some years ago led to the introduction of the system of hightension distribution of electric energy for lighting purposes. The saving in the first cost of the copper mains being the chief advantage of the system in the eyes of the promoters, the question of the efficiency of this method of supply, except at full load, was not considered. Now, experience has shown that the cost of the annual supply depends largely on the efficiency of the transformers used, and that the loss at light loads is the most important factor in determining this cost. Hence the design of alternate-current transformers needs more careful attention as the demand for higher efficiency arises. I have endeavoured in the following pages to describe as simply as possible the principles involved in the construction of transformers on economic lines, both as regards first cost and power wasted when working. To the formulae deduced from these principles I have added several others which are useful when determining quickly the dimensions of the various circuits. To enable more to follow the reasoning, higher mathematics have been avoided, although this omission has necessitated the acceptance of certain well-known formulae without proof. The examples worked out and illustrated show the general procedure of designing transformers of different types to fulfil definite conditions. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at 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....

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