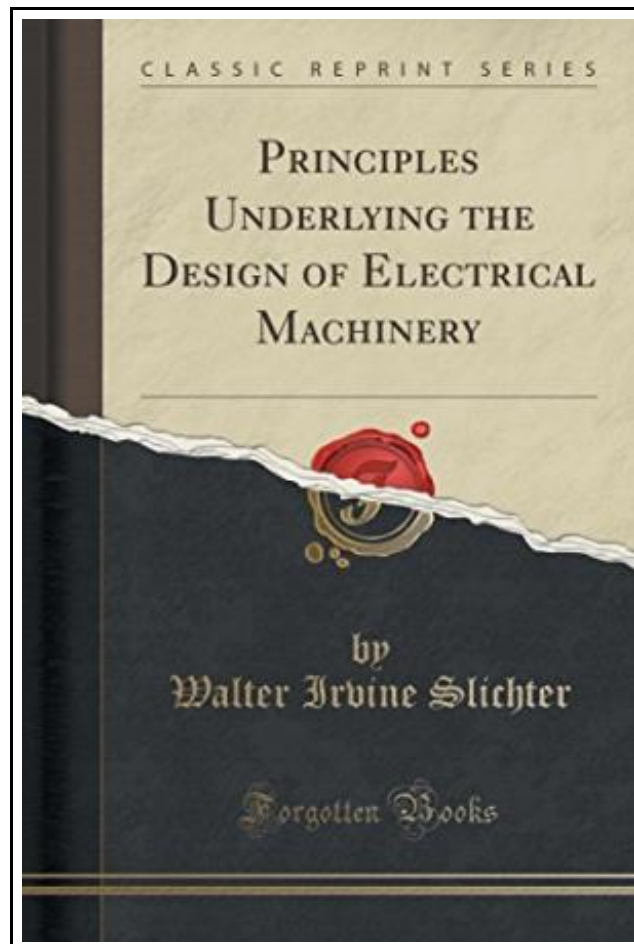


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English Brand New Book ***** Print on Demand *****.Excerpt from Principles Underlying the Design of Electrical Machinery This book is developed from a course of lectures, given at Columbia University and from the author's own experience as a designing engineer. It is to some extent an amplification of the series of articles on the Design of Electrical Machinery, written by the same author for Pender's Handbook for Electrical Engineers. An important feature of the present work is the derivation of formulae from fundamental principles, an explanation of each, formula and the reasons for the various standards of practice, all of which are explained in such a manner as to convey a mental picture of the fundamental physical phenomena leading to them. The object is to give a practical method of design, with explanations of the physical meaning of the arbitrary constants used by the professional designer. It is hoped that the book will be found useful, not only as a text for a course on design in technical schools, but also as an aid to the young engineer by explaining the why of certain conventional practices. A systematic method of procedure and a complete sample calculation are given for the design of each type of machine treated. The tables also give complete specifications and the results of calculations on several actual modern machines of each type. The calculations of the mechanical features have been purposely omitted as they are considered to be outside the scope of the book, which is strictly electrical. The methods and the data are the result of an experience of seven years service in the Design Department of one of the large manufacturing companies and sixteen years experience in teaching...



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