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Revolving Vectors: With Special Application to Alternating Current Phenomena (Classic Reprint)

By George W Patterson

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Revolving Vectors: With Special Application to Alternating Current Phenomena The use of complex quantities, i.e., quantities part real and part imaginary, in the theory of alternating currents has been greatly developed by Dr. Charlea P. Steimnetz in his work on Alternating Current Phenomena. It would be difficult to determine the influence which earlier writers, from the time of Caspar Wesael down to Steinmetz a day, have had in laying the foundation on which Steinmetz has built. It is, however, fair to say that the great advance in the use of vector methods, both algebraic and geometric, due to Dr. Steinmetz, justifies us in calling their application to alternating current phenomena Steinmetz s Method. Earlier writers used complex quantities to represent vector quantities algebraically. Dr. Steinmetz extended the application so as to include harmonic quantities. As many writers on electrical subjects are prone to confuse vector and harmonic quantities, the author thinks it necessary to distinguish these two uses of complex quantities, and for that purpose he starts with the vector use and later takes up...



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Reviews

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