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## The Theory of Electric Cables and Networks (Classic Reprint)

By Alexander Russell

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from The Theory of Electric Cables and Networks There is nothing more conducive to the satisfactory working of an electric supply station than having a thoroughly trustworthy and economical network of cables connecting the dynamos with the lamps and motors of the consumer. It is necessary therefore that the engineer have a thorough knowledge of the phenomena connected with the flow of current along conductors and across dielectrics. He must also have a working knowledge of the dielectric strengths of insulating materials and the electric stresses to which they are subjected under working conditions. In addition, the thermal conductivity of the dielectric has to be considered and its effect on the temperature of the conductor. The author gives some information on these points in this book. His experience in practical testing, and with the difficulties which sometimes arise in interpreting specifications and rules and regulations has convinced him that the solutions of these problems are of practical use and ought to be more widely known. In fact many of the problems discussed were originally suggested by...



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