

## Dielectric Phenomena In High Voltage Engineering (Hardback)



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## DIELECTRIC PHENOMENA IN HIGH VOLTAGE ENGINEERING (HARDBACK)



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Read Books, United Kingdom, 2008. Hardback. Book Condition: New. 216 x 145 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Originally published in 1915. PREFACE: It is the object of the author to give in this book the properties of gaseous, liquid and solid insulations, and methods of utilizing these properties to the best advantage in the problems of highvoltage engineering. Such problems require a knowledge, not only of the laws and mechanism of breakdown of dielectrics as determined by experiment, but also a simple working knowledge of the dielectric circuit. Methods that have proved useful in designing apparatus, transmission lines, insulators, bushings, etc., are discussed and illustrated by practical application. In addition, such subjects as the manner of making extensive engineering investigations and of reducing data, the measurement of high voltages, the effects of impulse and high-frequency voltages, methods of drawing dielectric fields, outline of modern theory, various dielectric phenomena, etc., are considered. In all cases where laws and discussions of dielectric phenomena are given, it has been thought best to accompany these with experimental data. Much original work is given, as well as reference to other investigations. The authors extensive research was made possible by facilities afforded by the Consulting Engineering Department of the General Electric Company, for which acknowledgment is made. Thanks are due Mr. H. K. Humphrey, and others, who have greatly assisted in the experiments and calculations. SCHENECTADY, N. Y., April, 1915. Contents include: PAGE PREFACE v DIELECTRIC UNITS xi TABLE OF SYMBOLS, xiii CHAPTER I INTRODUCTION. . v . v General discussion of energy transfer Experimental plots of dielectric and magnetic fields Analogy between magnetic and dielectric fields Analogy with Hooke s Law. CHAPTER II THE DIELECTRIC FIELD AND DIELECTRIC CIRCUIT 8 Mathematical Consideration General treatment of the dielectric...



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