



Weston Monographs: Combined Under One Cover for the Convenience of Science Teachers in High Schools and Collegiate Preparatory Schools (Classic Reprint)

By Weston Electrical Instrument Co

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Weston Monographs: Combined Under One Cover for the Convenience of Science Teachers in High Schools and Collegiate Preparatory Schools Otto von Guericke, about the year 1640, constructed an electrical machine consisting of a ball of sulphur mounted upon a shaft, and revolved by means of a crank. The ball was electrified by friction against the hands of one of the operators. About 1670 Newton repeated these tests, substituting a glass globe. In 1705 Hawksbee produced a machine similar to Newton s. Electrical machines were also made with glass cylinders and glass plates instead of spheres, and it soon became apparent that the size of the cylinder or plate, as well as the speed at which it was revolved, had something to do with the length of the spark, and the quantity of electricity obtained. And it was also noted, even if somewhat vaguely, that there was some relation between the amount of power applied and the electricity obtained, and that the big machines gave more impressive results than the little ones, at least from a...



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