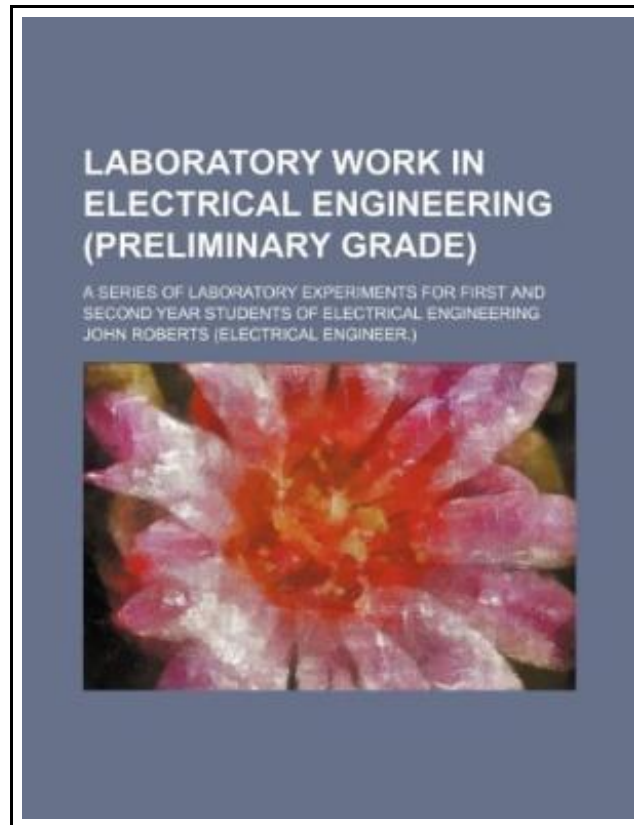


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1906 Excerpt: .0 C. The experiment is to determine the value of this coefficient for different metals. Diagram of Connections.--As for any accurate method of measuring resistance. Apparatus required.--A number of coils of wire of different metals, preferably bare wire wound on perforated insulation bobbins. Apparatus for raising the temperature of the coils, preferably an inner vessel containing oil, and in which the coils are placed, surrounded by an outer vessel containing water heated by a bunsen burner. An accurate thermometer. Apparatus as above for the accurate measurement of resistance. Method.--(1) Immerse the coils in the oil bath, stir the oil well for uniform temperature T C. throughout, and accurately measure the resistance of each coil. Note temperature T C. by an accurate thermometer and resistance R_T ohms of each coil. (2) Heat the water in the outer vessel with the bunsen burner continuously, and when the temperature of the oil and coils has been raised about 5 C, carefully measure the resistance of each coil in turn. Great care should be taken to keep the oil well stirred, so as to obtain the exact uniform temperature throughout, and since the measurement of a number of resistances takes time during which the temperature is continually rising, the reading on the thermometer should be taken at the moment of balance in each case. Note the values of T_i and R_i in each case. (3) Repeat (2) for successive rises of about 5 C., up to a temperature of about...

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