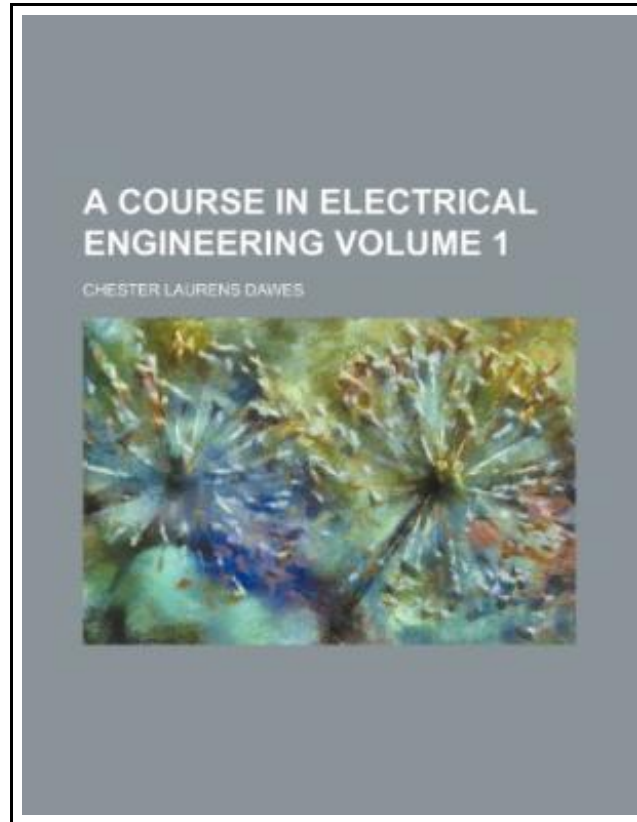# A course in electrical engineering Volume 1

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 136 pages. Dimensions: 9.7in. x 7.4in. x 0.3in.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. 1920 Excerpt: . . . The field current in this experiment should be obtained from a supply other than the generator itself, for two reasons: II the generator excited its own field, the voltage and field current would be inter-dependent and it would be difficult to adjust the field current without the voltage in turn changing this adjustment. Also a voltage drop would exist in the armature due to the field current. The voltmeter would not then be reading the true induced voltage, although the error from this cause would be slight. 186. Field Resistance Line. --By Ohms Law the current in a circuit is proportional to the voltage, for a constant resistance. If the current be plotted against volts, Fig. 234, a straight line passing through the origin results. For example, if the resistance of a field circuit be 50 ohms, the current will be 2 amp. when the voltage is 100 volts; 1. 5 amp. when the voltage is 75 volts, and 1 amp. when the voltage is 50 volts. This relation is shown in Curve II, Fig. 234. Curve 1 shows the resistance line for 80ohms field resistance. It will be noted that at 80 volts the current is 1. 0 amp. , at 40 volts it is 0. 5 amp. , etc. Curve III shows the same relation for a field resistance of 40 ohms. It will be noted that the higher the resistance the greater the slope of the resistance line. In fact the slope of...

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