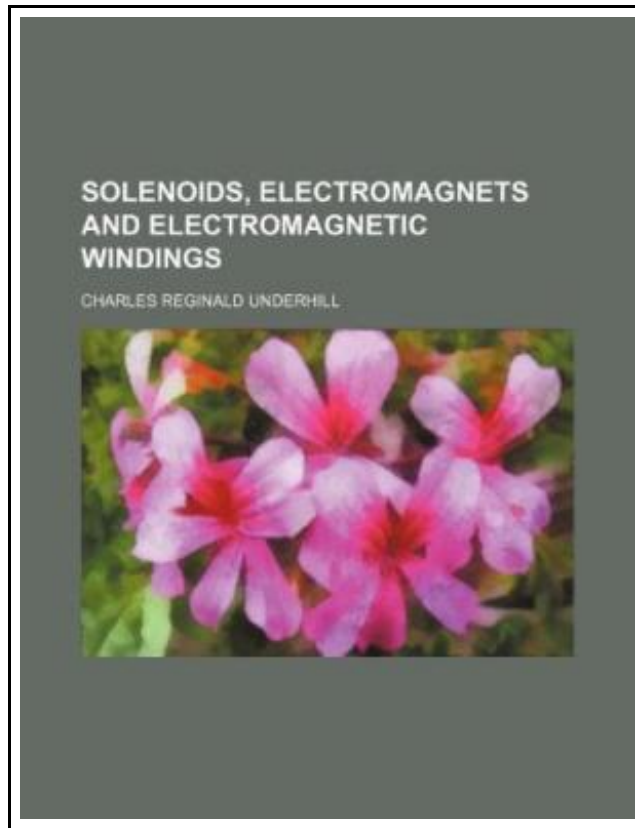


# Solenoids, Electromagnets and Electromagnetic Windings



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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. 1921 Excerpt: .If the angle of lag is 90, they are in quadrature, and if 180, they are in opposition. In Fig. 131 are shown two current waves in quadrature. Fig. 131.--Two-phase Currents. If each of these currents were fed into separate lines, a two-phase system would be obtained; the currents differing in phase by 90 or one quarter period. In three-phase systems the currents differ in phase by 120 (one third period). This effect is shown in Fig. 132. Fig. 132.--Three-phase Currents. It is an easily demonstrated property of these currents that their algebraic sum, at any given instant, is zero, or, in other words, at any given instant, there is one of the three currents which is equal in strength to the sum of the other two currents, and opposite in direction thereto. Consequently, one wire of each of the three circuits may be dispensed with, and the three currents carried on the three remaining wires, one of which, at any given instant, acts as the return for the other two, or two act as the return for the other one. The general plan of the two-phase system is shown in Fig. 133, while the two common three-phase systems are diagrammatically shown in Figs. 134 and 135, the former being called the Star or Y connection and the latter the Delta ( $\Delta$ ) connection. Fig. 133.--Two-phase System. Fig. 134.--Star or Y Connection. Fig. 135.--Delta Connection, Three-phase. 80. Hysteresis When an alternating current flows through the...



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