

Induction Coil: Theory and Applications



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INDUCTION COIL: THEORY AND APPLICATIONS

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Barclay Press. Hardcover. Book Condition: New. Hardcover. 280 pages. Dimensions: 8.7in. x 5.7in. x 1.3in. INDUCTION COIL- THEORY AND APPLICATIONS by E. TAYLOR JONES. Originally published in 1932. PREFACE: THE theory of the action of an induction coil, or that of any other form of oscillation transformer, is essentially a theory of the transient electric currents set flowing at some sudden or very rapid change in the circumstances of one of a pair of coupled circuits. The precise manner of variation of the currents depends upon the method by which they are started, but generally in inductive circuits it takes the form of two superposed oscillations which gradually die away while the system is adjusting itself to its new conditions. In many cases the currents, besides varying with time, are also variable along the wire owing to its distributed capacity a fact which is too often overlooked, with the consequence that erroneous statements are sometimes made regarding fundamental matters, such as, for example, the law of electromagnetic induction which is discussed in Chapter I. The book contains a less detailed and more descriptive account of the action of induction coils than that given in the Theory of the Induction Coil published eleven years ago. All the essential features of the theory are, however, retained in the present account, and free use has been made of portions of the earlier book where they appeared suitable for the purposes of the present one. As in the former book, oscillographic records are used largely to illustrate the subject, and many new examples are here collected, including some, in Chapter III, which illustrate the relative merits of coils and transformers as generators of high potentials. In using an induction coil or other generator for some practical purpose, it is important to understand the nature...

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