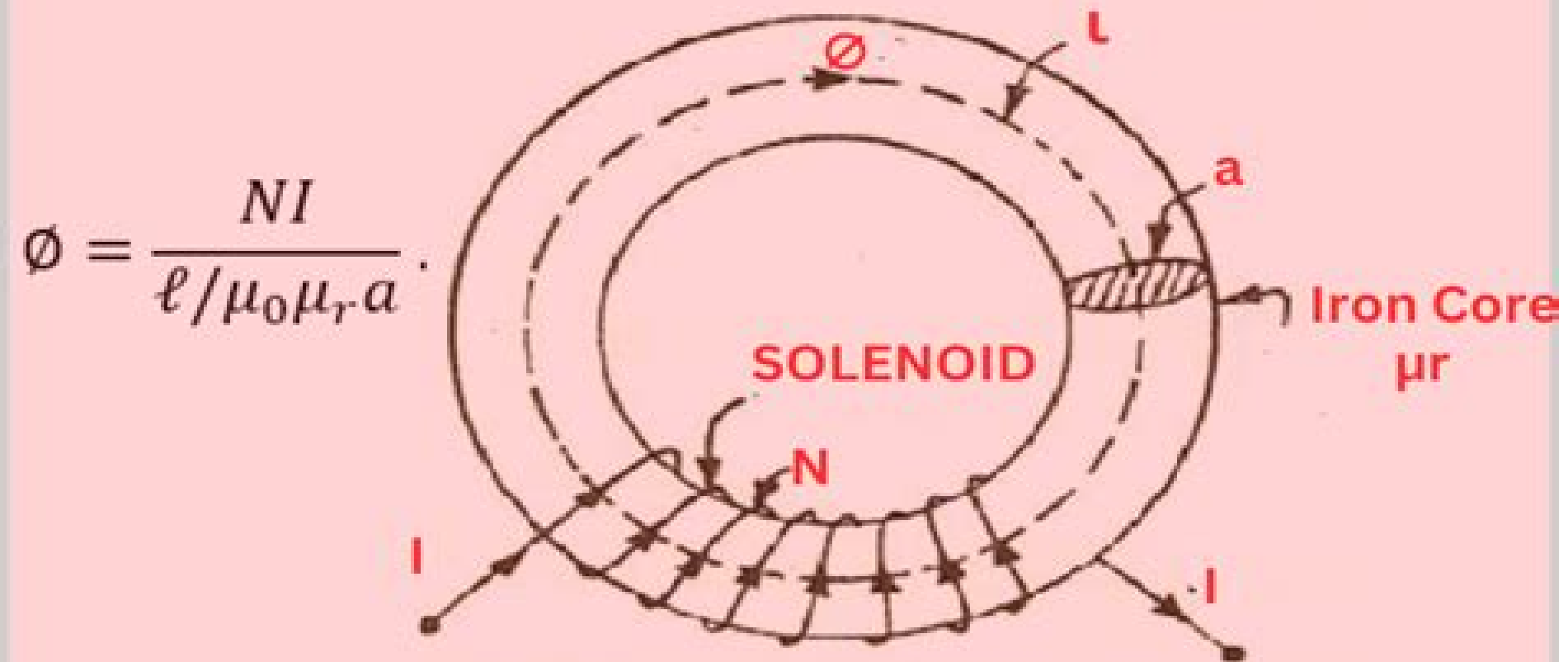


Magnetic Circuit



The Magnetic Circuit

Ellis H. Crapper



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machine as a particular combination of electric and magnetic circuits and to base its performance upon the fundamental electromagnetic relations rather than upon a separate theory established for each kind of machinery as is sometimes done. The book is not intended for a beginner but for a student who has had an elementary descriptive course in electrical engineering and some simple laboratory experiments. The treatment is somewhat different from that given in most other books dealing with magnetic phenomena. It is based directly upon the circuital relation or interlinkage between an electric current and the magnetic flux produced by it. This relation and the law of induced electromotive force are taken to be the fundamental phenomena of electromagnetism. No use whatever is made of the usual artificial concepts of unit pole, magnetic charge, magnetic shell, etc. These concepts of mathematical physics together with the law of inverse squares embody the theory of action at a distance and are both superfluous and misleading from the modern point of view of a continuous action in the medium itself.

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