# **Magnetic Circuits**

The magnetic circuit for the toroidal coil can be analyzed to obtain an expression for flux.

Magnetomotive force is

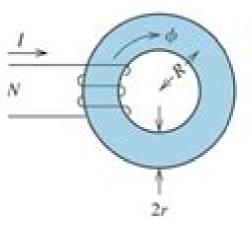
$$F = NI = \mathbf{R} \phi$$

Where the reluctance is

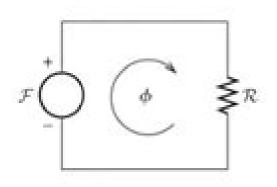
$$R = \frac{l}{\mu A} = \frac{2\pi R}{\mu \pi r^2} = \frac{2R}{\mu r^2}$$
  
so  $NI = \frac{2R}{\mu r^2}\phi$ 

and the magnetic flux is

$$NI = \frac{2R}{\mu r^2} \phi \quad so \quad \phi = \frac{NI\mu r^2}{2R}$$



(a) Coil on a toroidal iron core



(b) Magnetic circuit Copyright © 2011, Pearson Education, Inc.

## **Magnetic Circuit**

**Charles Proteus Steinmetz** 

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