

EE3010 Tutorial 1**Magnetic fields and circuits**

1. (a) The cross-sectional area of a bar magnet is 12 m^2 . Determine the magnetic flux density if the flux in the magnet is 0.3 Wb . [0.025 T]
- (b) The flux in the bar magnet is 0.2 Wb and the magnetic flux density is 0.02 T . Determine the area of the magnet. [10 m^2]
- (c) A coil of 400 turns carries a current of 0.5 A and is wound uniformly on a magnetic circuit which is 20 cm in length. Calculate the mmf produced and the magnetic field intensity. [200 At ; 1000 At/m]
- (d) A cast iron toroid has a mean length of 14 cm . It has a circular cross-section whose diameter is 1.5 cm . The core is wound by the coil of 200 turns and carries a current of 3 A . The value of the flux is 0.015 Wb . Calculate the flux density, mmf and the magnetic field intensity.
[84.88 T ; 600 At ; 4285.7 At/m]
2. (a) A 120-turn coil is uniformly wound on a ferromagnetic ring of mean diameter 250 mm and cross-sectional area 1000 mm^2 . If the current in the coil is 7 A and the magnetic flux in the core is 1 mWb , determine (a) the mmf and the magnetic field intensity at the mean circumference of the ring, (b) the relative permeability of the iron. [(a) 840 At ; 1069.5 At/m ; (b) 744]
- (b) An iron circuit has a cross-sectional area of 500 mm^2 and length 30 cm . If the flux density in the core is 1.25 T , and the relative permeability of the iron is 1800, determine the reluctance of the magnetic circuit, and the mmf needed to produce the flux. [$0.265 \times 10^6 \text{ A/Wb}$; 165.6 At]
3. An iron circuit has three parts, all in series with one another, the length of each part being 0.25 m . The cross sectional area of one part is 250 mm^2 , that of the second is 500 mm^2 , and that of the third is 1000 mm^2 . If the relative permeability of the first part is 400, and that of the other two parts is 600, calculate the mmf required to produce a magnetic flux of 0.5 mWb in the iron core. Neglect leakage and fringing.
[1492 At]
4. A series magnetic circuit has an iron part of length 0.4 m and an air-gap of length 1.0 mm , the cross-sectional area of the iron being 550 mm^2 , and the relevant part of the B - H characteristic of the iron is

H(At/m)	500	1000	2000	5000
B(T)	1.2	1.35	1.45	1.51

If the coil is wound uniformly on the iron has 500 turns of wire, estimate the current needed in it to produce a flux of 0.7 mWb in the air gap. Neglect leakage and fringing.
[2.6 A]

Ee3010 Circuits And Instrumentation For Michigan Technological University

Sebastian Brünink



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