Lecture-23 Tutorials and Videos

Lecture Delivered by



Objectives

At the end of this lecture, student will be able to:

- Explain Diamagnetic and Paramagnetic Materials
- Analyze Magnetism and Diamagnetism
- Describe Ferro Magnetic Materials
- Analyze Eddy Current
- Solve B-H Curve



Video on Diamagnetic and Paramagnetic Materials

https://www.youtube.com/watch?v=2RRX8xmLR8E



Video on Ferro Magnetic Materials

https://www.youtube.com/watch?v=yyAUmX3ncBA



Video on Eddy Current

https://www.youtube.com/watch?v=zJ23gmS3KHY



Problem No 1

- A circular ring of mean circumference of 63 cm and cross sectional area of 6 cm² is uniformly wound with a coil of 500 turns.
 Calculate
- a) The current required to produce a flux of 0.45mWb in the steel ring
- b) The current required for the same amount of flux when a saw cut of 0.1 cm width is made in the ring.

B Wb/m ²	0.6	0.72	0.785	0.815
H AT/m	600	650	700	750



Summary

- Understand the properties of magnetic materials
- Understand and be able to use B-H curve

