

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

ELECTRICAL ENGINEERING DEPARTMENT

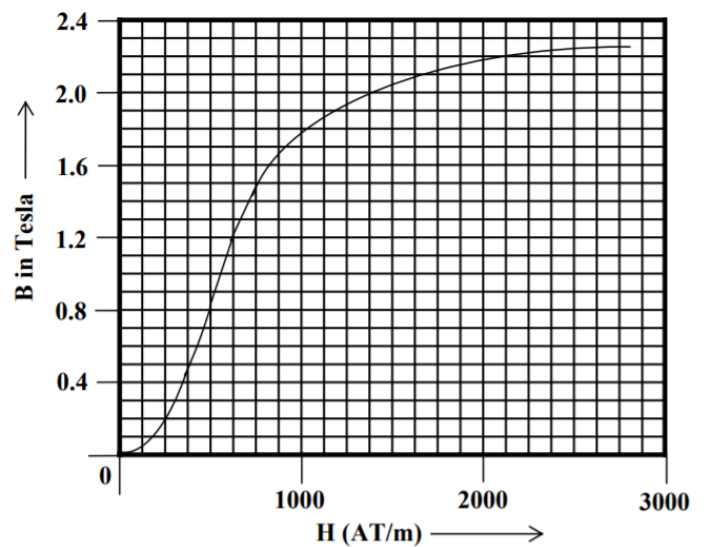
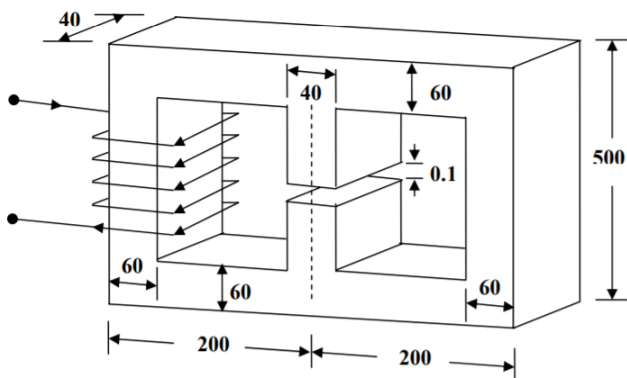
Dr. Ibrahim O. Habiballah

EE-306

Key Solution

Quiz 2 Sec.: 5 I.D.: Ser#: Name:

Consider the shell core shown below. Its $B-H$ curve is as shown. The flux density in the air-gap is 0.8 Tesla. Ignore fringing effect.



Q.1 The flux intensity of the air-gap is same as the flux intensity of the central leg. (3-points)

- a. True.
- b. False.

Q.2 The flux intensity of the central leg is 500 At/m. (4-points)

- a. True.
- b. False.

Q.3 The amount of flux flowing in the left leg is same as that flowing in the right leg of the core. (3-points)

- a. True.
- b. False.