

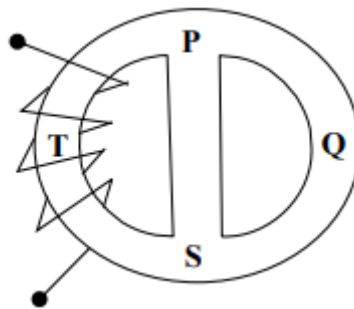
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EE-306

Key Solution

Quiz 2 Sec.: 4 I.D.: Ser#: Name:

Q.1 . (6-points)

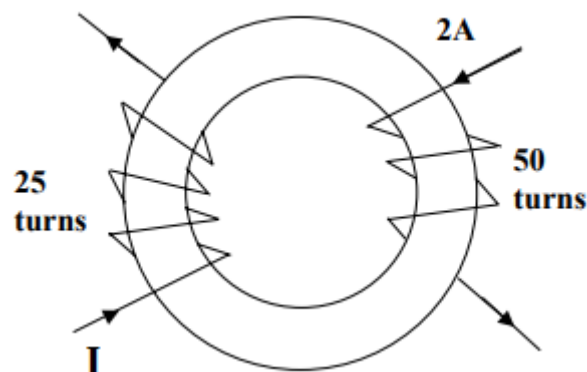
For the magnetic circuit shown below the reluctance of the central limb (PS) is 10×10^5 AT/Wb and the reluctance of the outer limbs (PTS and PQS) are same and equal to 15×10^5 AT/Wb. To produce 0.5 mWb in PQS, the mmf to be produced by the coil is:



- a. 750 AT.
- b. 1125 AT
- c. 2500 AT.
- d. **2625 AT.**

Q.2 (4-points)

In the magnetic circuit shown below , the second coil carries a current of 2 A. If flux in the core is to be made zero, the current I in the first coil should be



- a. + 2 A.
- b. - 2 A.
- c. + 4 A.
- d. **- 4 A .**