

Exercise 1

An coil of 10 turns is in the shape of an equilateral triangle of side 4 cm. The coil is in a magnetic field of strength 0.01 T parallel to the plane of the loop. The current in the coil is 0.1 A. Find the torque acting on the coil.

$$[\text{Ans. } 4\sqrt{3} \times 10^{-6} \text{ N-m}]$$