

Chapter Four

MOVING CHARGES AND MAGNETISM



MCQ I

- 4.1** Two charged particles traverse identical helical paths in a completely opposite sense in a uniform magnetic field $\mathbf{B} = B_0 \hat{\mathbf{k}}$.
- (a) They have equal z-components of momenta.
 - (b) They must have equal charges.
 - (c) They necessarily represent a particle-antiparticle pair.
 - (d) The charge to mass ratio satisfy : $\left(\frac{e}{m}\right)_1 + \left(\frac{e}{m}\right)_2 = 0$.
- 4.2** Biot-Savart law indicates that the moving electrons (velocity $\mathbf{v}$) produce a magnetic field $\mathbf{B}$ such that
- (a) $\mathbf{B} \perp \mathbf{v}$.
 - (b) $\mathbf{B} \parallel \mathbf{v}$.
 - (c) It obeys inverse cube law.
 - (d) It is along the line joining the electron and point of observation.

Physics Exemplar Grade 12014

Jianjun Gao



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