
Acceleration and/or deflection of a charged particle. A charged particle moves with velocity \mathbf{v} in a vacuum. An applied magnetic fields of flux density \mathbf{B} can change

- (A) both the magnitude of \mathbf{v} and its direction.
- (B) the magnitude of \mathbf{v} but not its direction.
- (C) the direction of \mathbf{v} but not its magnitude.
- (D) neither the magnitude of \mathbf{v} nor its direction.

Solution: (C)

Answer: (C)