

During the concept of Newton's second law of motion using magnitude and direction of the acceleration of an electron being shot horizontally in a closed space with a uniform field being upward.

As like

The attractive or repulsive interaction between any charged object in an electric force like any force affects upon objects is described by Newton's laws of motion. The electric force of electron the way lot of other force that can act upon object.

Newton's laws are applied to analyze the motion for lot of motion of objects under the influence of such a force or combination of forces. The analysis starting begins with the combination of a free body diagram in which the type and direction of the individual forces are represented by their arrows and labeled according to type. The magnitude of the forces are then added as vectors in order to determine the resultant sum, also known as the net force. The net force can then be used to determine the acceleration of the object.

2) Describe the electric field, magnetohel and electric current with the respect to charge.

Electric field: The electric field is defined mathematically as a vector field that associates to each point in space that electrostatic or Coulomb force per unit of charges exerted on a direction of the force. It would exert on a positive test charge.

The electric field is radially inward a negative point charge. The SI unit is Volt per meter (V/m). Reference under Gauss transformation is vector.

Magnetic field: The direction of magnetic force on a moving charge is perpendicular to the plane formed by  $v$  and  $b$  and follows right hand rule (RHR-1) as shown in the magnitude of the force is proportional to  $qv \times b$  and size of the angle between  $v$  &  $b$ .

Electric Current: It is defined as the rate of flow of positive charges of the conductor in this way is the continuous flow of electrons in an electric circuit is called electric current. The conducting material consists large number of free electrons which move from one electron to the other at random.