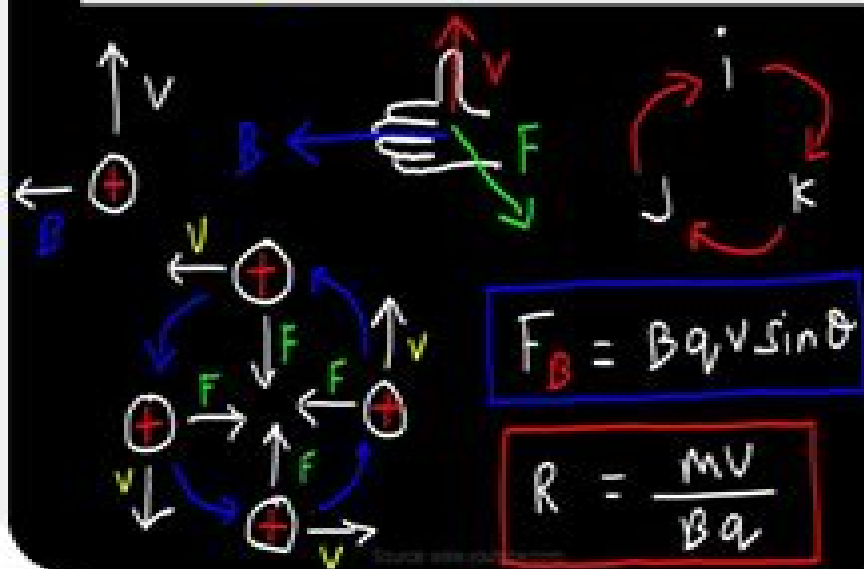


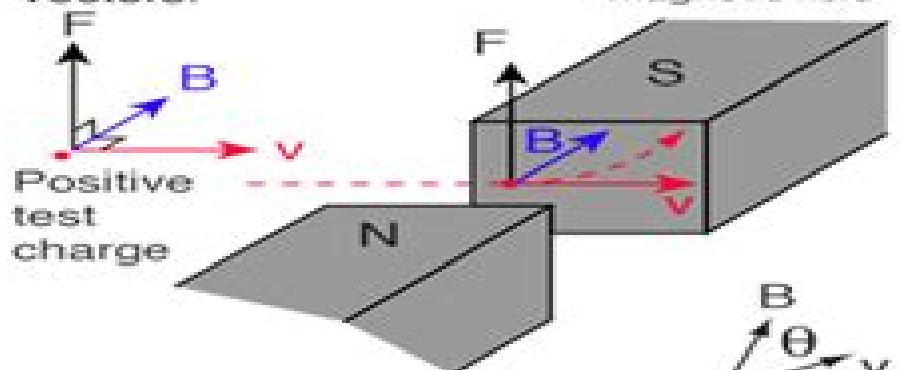
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- The force experienced by a charged particle moving in a magnetic field, known as the Lorentz force, can be calculated using the formula $F = q(\mathbf{v} \times \mathbf{B})$, where F is the force, q is the charge, $\mathbf{v}$ is the velocity, and $\mathbf{B}$ is the magnetic field
- The cross product $(\mathbf{v} \times \mathbf{B})$ is calculated as $|\mathbf{v}||\mathbf{B}|\sin(\theta)\mathbf{n}$, where $|\mathbf{v}|$ and $|\mathbf{B}|$ are the magnitudes of the velocity and magnetic field vectors respectively, θ is the angle between them, and $\mathbf{n}$ is the unit vector perpendicular to both
- The direction of the force is perpendicular to both the velocity and magnetic field vectors
- If the velocity is parallel or antiparallel to the field, the force will be zero

Magnetic Forces



in the illustration, $\mathbf{F}$, $\mathbf{B}$, and $\mathbf{v}$ are three mutually perpendicular vectors.



The force is always perpendicular to both the magnetic field and velocity.

$$\mathbf{F} = q\mathbf{v} \times \mathbf{B} \sin \theta$$

or $F = qvB$ if $\theta = 90^\circ$

The Moving Force

RD Boyd



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1744-1749 Charles Hutton,Richard Pearson,1809 *Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations* Hiroshi Yokota,Dan M. Frangopol,2021-04-19 Bridge Maintenance Safety Management Life Cycle Sustainability and Innovations contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance Safety and Management IABMAS 2020 held in Sapporo Hokkaido Japan April 11 15 2021 This volume consists of a book of extended abstracts and a multimedia device containing the full papers of 571 contributions presented at IABMAS 2020 including the T Y Lin Lecture 9 Keynote Lectures and 561 technical papers from 40 countries The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance safety management life cycle sustainability and technological innovations of bridges Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle sustainability standardization analytical models bridge management systems service life prediction maintenance and management strategies structural health monitoring non destructive testing and field testing safety resilience robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads and application of information and computer technology and artificial intelligence for bridges among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance safety management life cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including engineers researchers academics and students from all areas of bridge engineering Philosophical Transactions of the Royal Society of London Royal Society (London),1745 *Journal of the Franklin Institute* Franklin Institute (Philadelphia, Pa.),1862 Vols 1 69 include more or less complete patent reports of the U S Patent Office for years 1825 59

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