

MAGNETISM & MATTER

BAR MAGNET

Iron filings on sheet bar magnet
 Particular pattern formed is following
 conclusion:



- Poles m_1 & m_2 \rightarrow net \vec{E} \rightarrow net change of electric dipole
- \rightarrow \rightarrow
- Poles - North pole (+ve) & South pole (-ve)
- For dipole, poles point towards geographic north & south pole.
- Like poles - repel
- Unlike poles - attract
- Poles never separated. monopoles exist

MAGNETIC FIELD LINES

- imaginary curve, tangent to any point gives direction of magnetic field at that point.
- MFL of bar magnet (or solenoid carrying current), close loop because \vec{E} .
- Electric field lines - open loop like \vec{E} .
- Outside magnet - Field line direction $N \rightarrow S$
- inside - $S \rightarrow N$
- 2 field lines never intersect each other. at point of intersection, 2 tangents become. this means 2 directions of magnetic field at same point, which is not possible.



- $B \propto \frac{1}{r^2}$ \rightarrow field lines stronger the field



- MFL come out & go into magnetic matter at any angle.
- Electric field lines conducting surface is normal to \vec{E} .



uniform magnetic field $B_1 > B_2$
 non-uniform magnetic field $B_2 > B_1$

POLE STRENGTH

- Just like electric charges, a magnetic charge (also a pole strength) $m_1 \rightarrow$ North pole $m_2 \rightarrow$ South pole
- $m =$ pole strength
- $m \propto$ area
- $M = m\ell$ [following electrical analogy] \rightarrow in charge & field \vec{E} .

unit (pole strength / magnetic charge) = Ampere-metre
 $M = m\ell$
 $M \propto$ magnetisation

- magnetic monopoles exist
- magnetic field lines - continuous & form closed loops
- In contrast, electric field lines begin on +ve charge & terminate on -ve charge

MAGNETIC DIPOLE MOMENT OF BAR MAGNET

Equal to pol of any 2 pole strength & separation b/w 2 poles.
 $M = m\ell$ [derived from $S \rightarrow N$ pole]
 shortest dist b/w poles
 direction: $-m$ to $+m$

ORIGINS:

- $M = m\ell$ \rightarrow $M = m\ell$ \rightarrow $M = m\ell$
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$\frac{1}{M} \times 100 = \left(1 - \frac{2}{3}\right) \times 100 = \left(1 - \frac{2}{3}\right) \times 100$

MAGNETIC FIELD DUE TO BAR MAGNET

- at axial point
- $\vec{B}_1 = \frac{\mu_0 q_1}{4\pi r^2}$
- $\vec{B}_2 = \frac{\mu_0 q_2}{4\pi r^2}$

11. Normal Bisection

- $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$
- $\frac{B_1}{B_2} = 2$
- $\vec{B}_1 \cdot \vec{B}_2 < -1$

QUESTION CASE:

- \rightarrow $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$
- $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$ \rightarrow $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$
- $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$ \rightarrow $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$

TORQUE ON MAGNETIC DIPOLE

- $\vec{\tau} = \vec{M} \times \vec{B}$
- $\tau = MB \sin \theta$
- $\tau = 0$ \rightarrow $\tau = 0$ \rightarrow $\tau = 0$
- $\tau = 0$ \rightarrow $\tau = 0$ \rightarrow $\tau = 0$

WORK DONE IN ROTATING A DIPOLE IN UNIFORM MAGNETIC FIELD

- Work = $\int \vec{M} \cdot d\vec{\theta} = -MB(\cos \theta_1 - \cos \theta_2)$
- $PE = -MB \cos \theta$
- $MUM PE \rightarrow \vec{M}$ \rightarrow $MUM PE \rightarrow \vec{M}$
- $MAX PE \rightarrow \vec{M}$ \rightarrow $MAX PE \rightarrow \vec{M}$

$\frac{d\tau}{d\theta}$ = Rate of change of torque with deflection

$\left(\frac{d\tau}{d\theta}\right)_{max}$ at $\theta = 0$ \rightarrow PE_{max} at $\theta = \pi$

OF POINTS:

- \rightarrow $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$
- $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$ \rightarrow $\vec{B} = \frac{\mu_0 q}{4\pi r^2}$
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