Field due to bar magnets:

$$\frac{1}{100} = \frac{2 \times M}{2 \times 3}$$

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$$B_{11} = \frac{2KM_{11}}{\chi^{3}}$$

Classical Magnetism:

Interaction of a bar magnet with external mag field:

1) Force on a bar magnet in Uniform Bext

⇒ ZERO

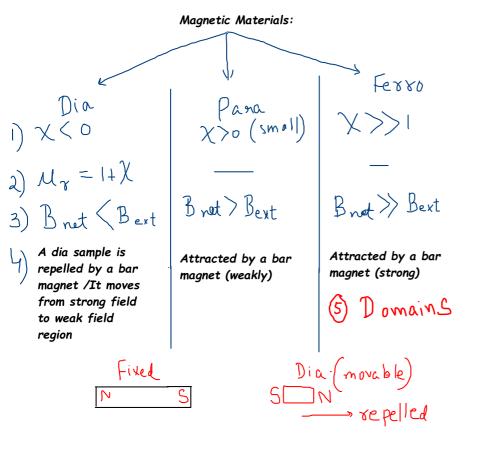
2) Torque: T = M xB

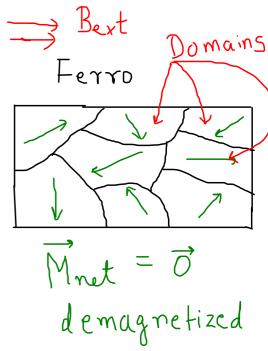
 $\frac{if \tau = 0}{\theta = 180} \Rightarrow \text{Stable}$ $\theta = 180 \rightarrow \text{Unstable}$

3) $P \cdot E : \longrightarrow \bigcup = -\overrightarrow{M} \cdot \overrightarrow{B} = -\overrightarrow{M} \cdot \overrightarrow{B} = -\overrightarrow{M} \cdot \overrightarrow{B}$ 4) in non uniform ext mag field $(a) \cup = -\overrightarrow{M} \cdot \overrightarrow{B}$ $(b) F = - \frac{dU}{dx}$

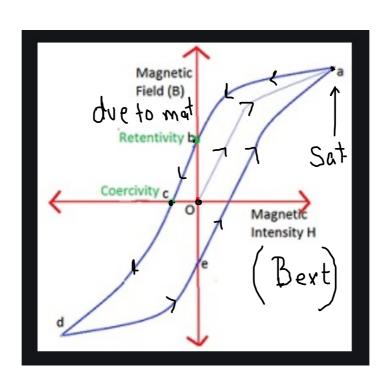
Earth's Magnetic field: Magnetic Equator Geographic Equator O :- Angle of dip / Inclination angle declination angle: Angle blw (M & M M (8)

the net B of earth always lies completely in the MM





M = C



Bert (Strong)

