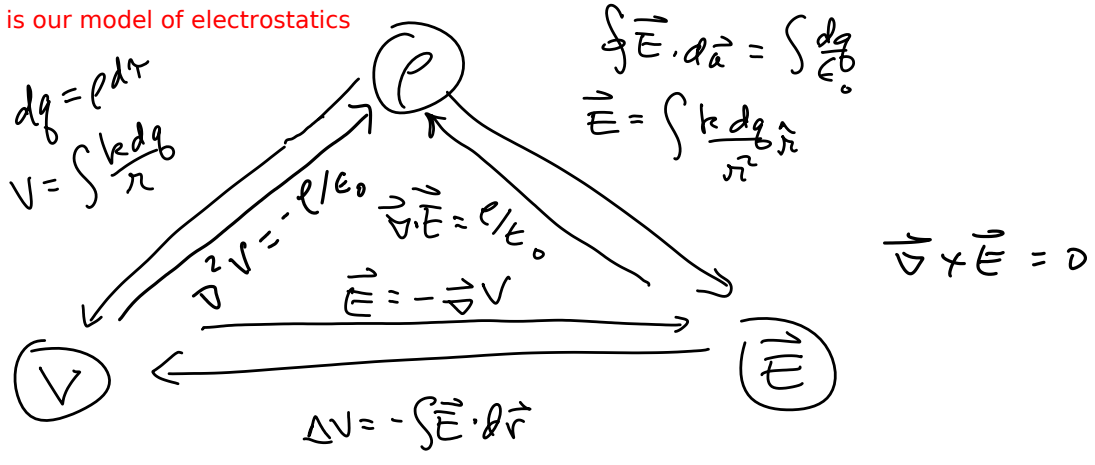


- Here is our model of electrostatics

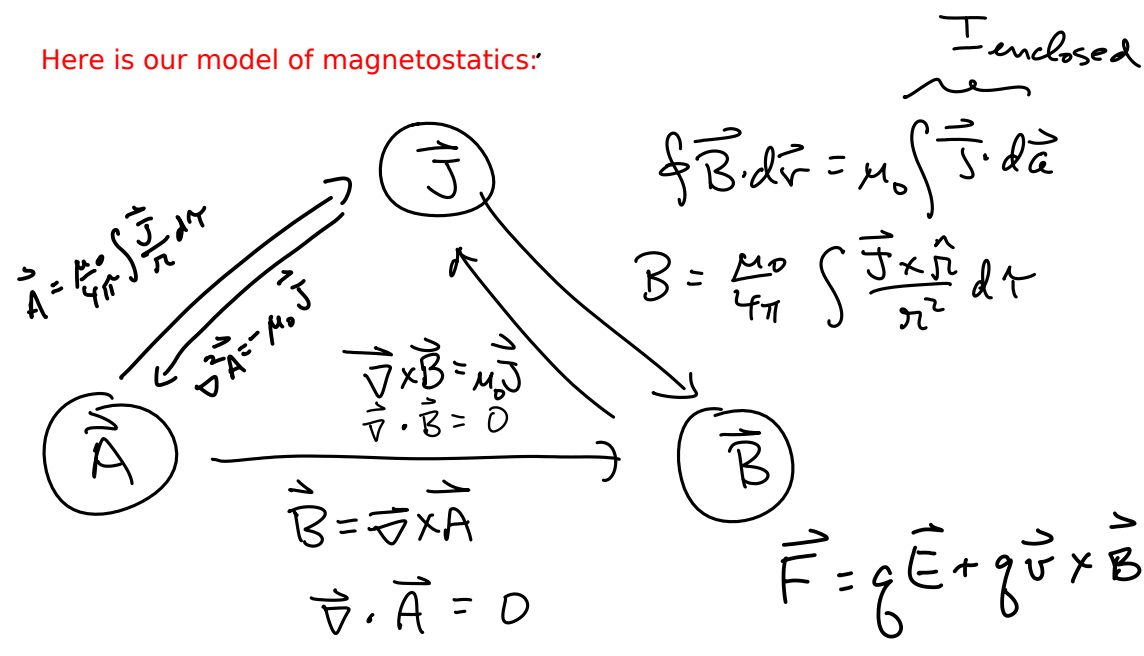


$\vec{F} = q \vec{E}$ $W_{nc} = \Delta(K.E + P.E)$

$W_{me} = \int V dq = A.P.E$ or $= \frac{1}{2} \int V dq$ To assemble a charge distribution

$W = \frac{\epsilon_0}{2} \left[\int E^2 d\tau + \oint V \vec{E} \cdot d\vec{a} \right]$

Here is our model of magnetostatics:



$W = \frac{1}{2\mu_0} \left[\int_{vol} B^2 d\tau - \oint_{surface} (\vec{A} \times \vec{B}) \cdot d\vec{a} \right]$