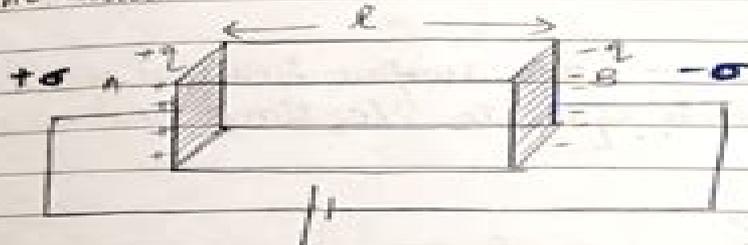


▶ Electromagnetism →

* Three electric vectors



• dipole moment per unit volume

Polarisation - separation of charge inside material on applying E.F. produces dipole moment

$$\text{vol.} = Al \quad \text{electric dipole} = ql = \sigma Al$$

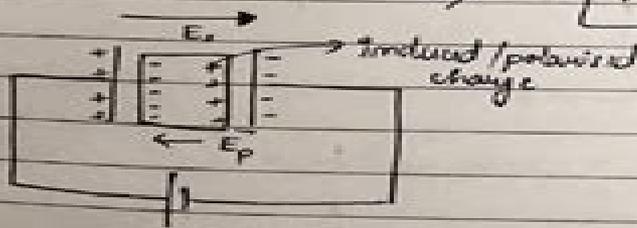
$$\sigma = \frac{q}{A} \Rightarrow q = \sigma A$$

polarisation, $P = \frac{\sigma Al}{Al} = \sigma_p$

(electric dipole per unit volume)

$$\Rightarrow \boxed{\vec{P} = \vec{\sigma}_p}$$

polarisation is the polarised charge density on the surface of material/body.



$$\vec{E} = \vec{E}_0 - \vec{E}_p$$

$$= \frac{\sigma}{\epsilon_0} - \frac{\sigma_p}{\epsilon_0}$$

$$\Rightarrow \boxed{\vec{D} = \sigma_p + \epsilon_0 \vec{E}} \quad \text{--- (1)}$$

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