Electromagnetism

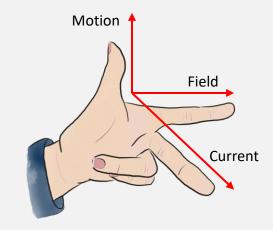
- Magnetic Force (F) = Magnetic Field Strength (B) x Current (I) x Length (L) x Number of coil (N)
- Transformer Voltage to coil ratio

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$$\frac{V_p}{V_s} = \frac{N_p}{N_s}$$

- For 100% efficiency transformer
 - IpVp = IsVs
 - $P = I^2 R$



Force on current carrying conductor in Magnetic field (Electric Motor) Direction of force – Fleming's Left Hand Rule



Electromagnetic Induction (Electric Generator) Direction of current – Fleming's Right Hand Rule

