

$$F = I B l \sin \theta \quad (1)$$

$$= I B l$$

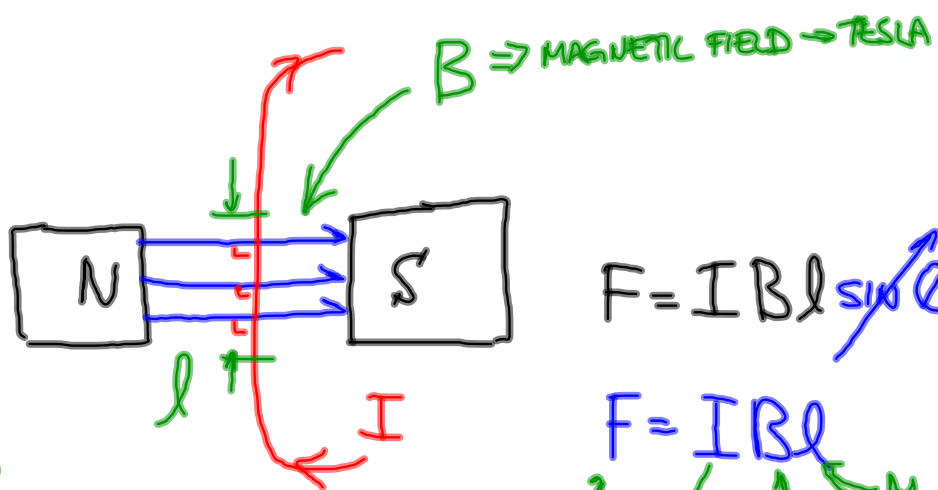
Length of wire
 current in wire
 strength of MAGNETIC FIELD

RIGHT HAND RULE FOR DETERMINATION OF DIRECTION OF FORCE ON A WIRE IN A MAGNETIC FIELD \Rightarrow

- TAKE RIGHT HAND
- POINT INDEX FINGER IN DIRECTION OF CURRENT
- CURL REMAINING FINGERS IN DIRECTION OF MAGNETIC FIELD
- THUMB WILL BE POINTING IN DIRECTION OF FORCE

$$F = I B l$$

METERS
 TESLA'S
 AMPS
 NEWTONS



RIGHT HAND Rule

$$F = I B l \sin \theta$$

$$F = I B l$$

(Annotations: I → NEWTONS, B → TESLAS, l → METERS)