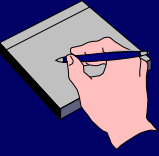
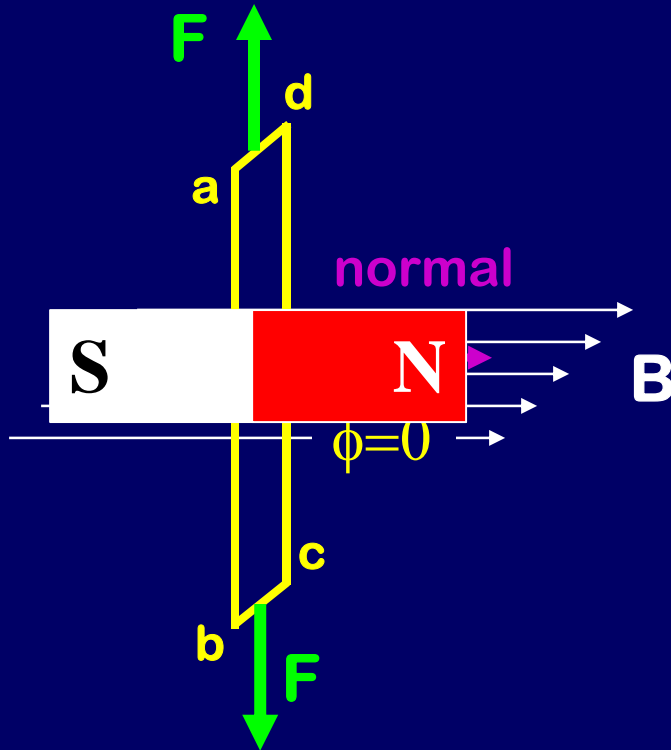


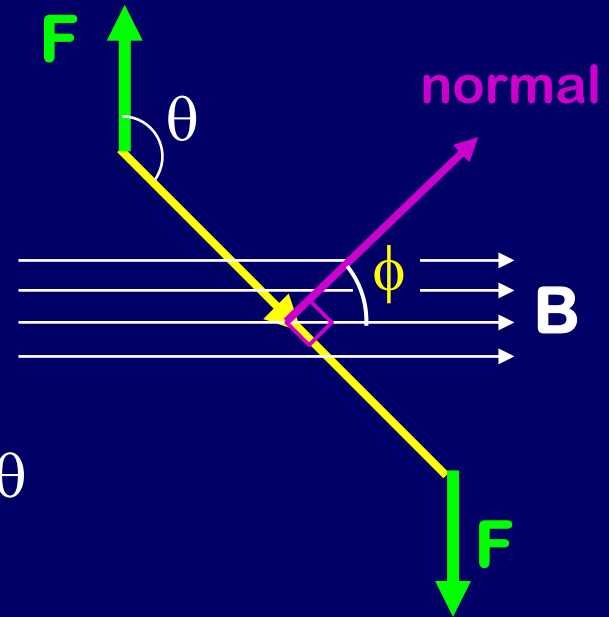
Torque on Current Loop



It is useful to define normal vector \perp to loop



$$\phi = 180 - \theta$$



Torque is: $\tau = IAB \sin \theta = IAB \sin \phi$

If there are N loops: $\tau = NIAB \sin \phi$

Even if loop is not rectangular, as long as it is flat

Note torque will align normal parallel to B like a magnetic dipole!