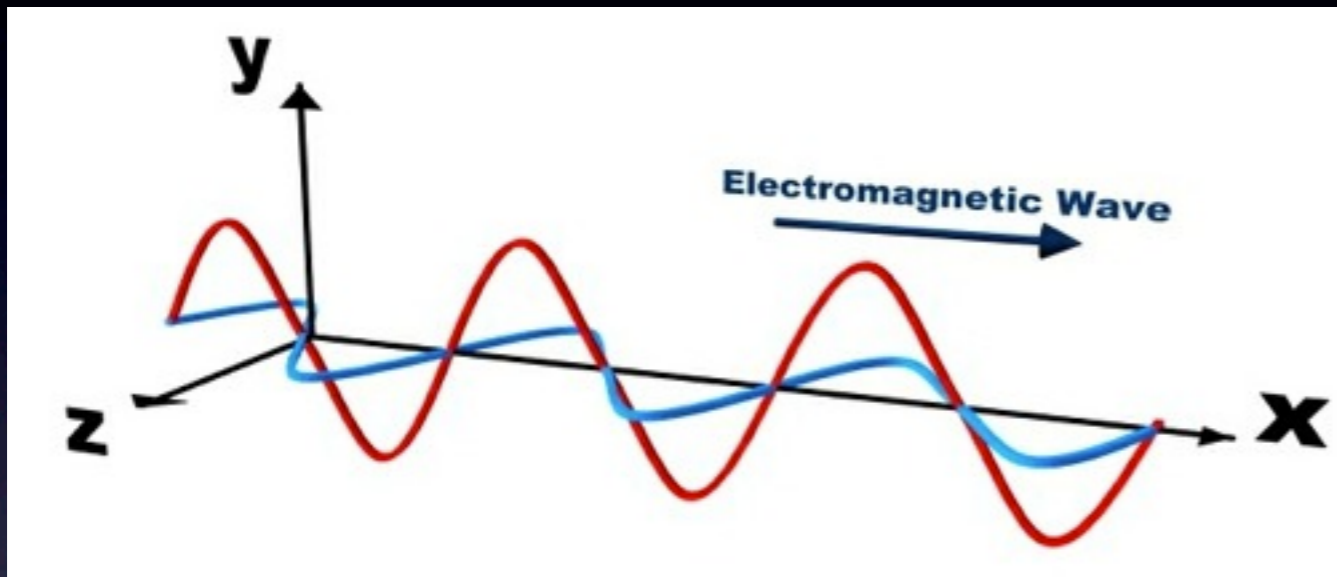


Magnetic Field - how to create a MF : flow of electrons



Ask Mish



- Current electricity=flow of free e- moving thru wire
- produced by batteries,generators
- develop a force perpendicular on flow =Magnetic Field =lines in/out of poles N&S.
- **DIRECTION OF MF** : you apply **right hand rule** (see pic): fingers on the direction of current and outstretched thumb shows the direction of MF.
- Just as a current can create a magnet, a magnet can create a current. If we have a coil of wire connected to an ammeter and we place a magnet thru the coil, we will generate an electrical current thru the wire. When we pull the magnet back, the current flows in the opposite direction. If we spin the magnet, we generate a sinusoidal or alternating current, the basis of a generator.