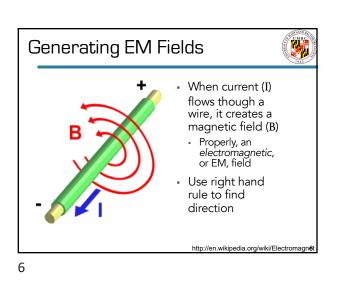
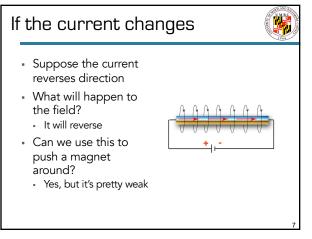
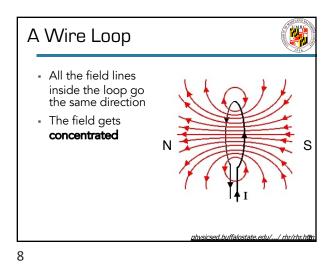


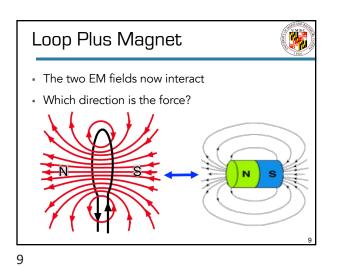
The Hall Effect
In the presence of a magnetic field, electrons in a metal strip or wire are deflected toward one edge
Because they are charged particles!
The Hall Effect: when a conductor or semiconductor with current flowing in one direction is perpendicular to a magnetic field, a voltage can be detected.
Creates a voltage gradient across the short side of the strip (perpendicular)







7



Suppose loop is upended What will happen to the loop? N attracts S N repels N s Ν Loop will rotate Once loop rotates halfway around, poles will be pointing the other way, and it will want to come back 3 Will flap back and forth or stick in one position

10

