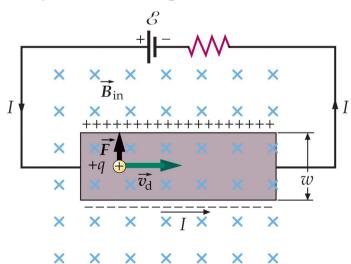Method for dermining whether charge carriers are positively or negatively charged.

- Magnetic field $\vec{B}$ pulls charge carriers to one side of conducting strip.

- Accumulation of charge carriers on that side and depletion on opposite side produce transverse electric field $\vec{E}$.

- Transverse forces on charge carrier: $F_E = qE$ and $F_B = qv_dB$.

- In steady state forces are balanced: $\vec{F}_E = -\vec{F}_B$.

- Hall voltage in steady state: $V_H = Ew = v_dBw$.

positive charge carriers　　　　　**negative charge carriers**