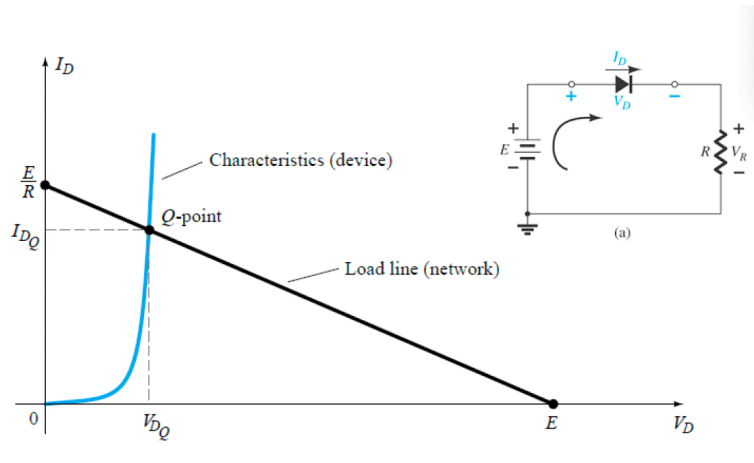
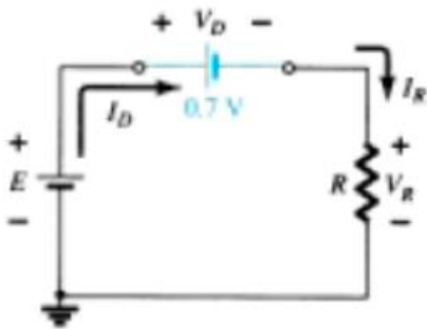


Load-Line Analysis



Series diode circuit

- *Si* diodes need $0.7V$ and *Ge* diodes need $0.3V$ to turn on.

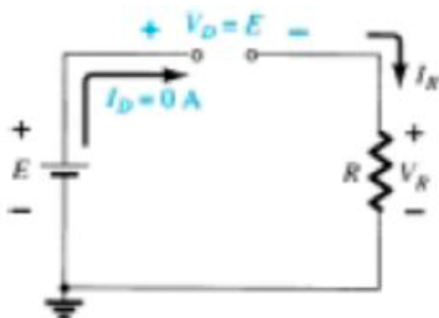


Analysis:

$$V_D = V_R$$

$$V_R = E - V_r$$

$$I_D = I_R = \frac{V_R}{R}$$



Analysis:

$$V_R = I_R \times R = I_D \times R = 0V$$

Application of DC diode circuits

- To drive LEDs in power indicators circuits
- LED lighting
- Logic circuits etc