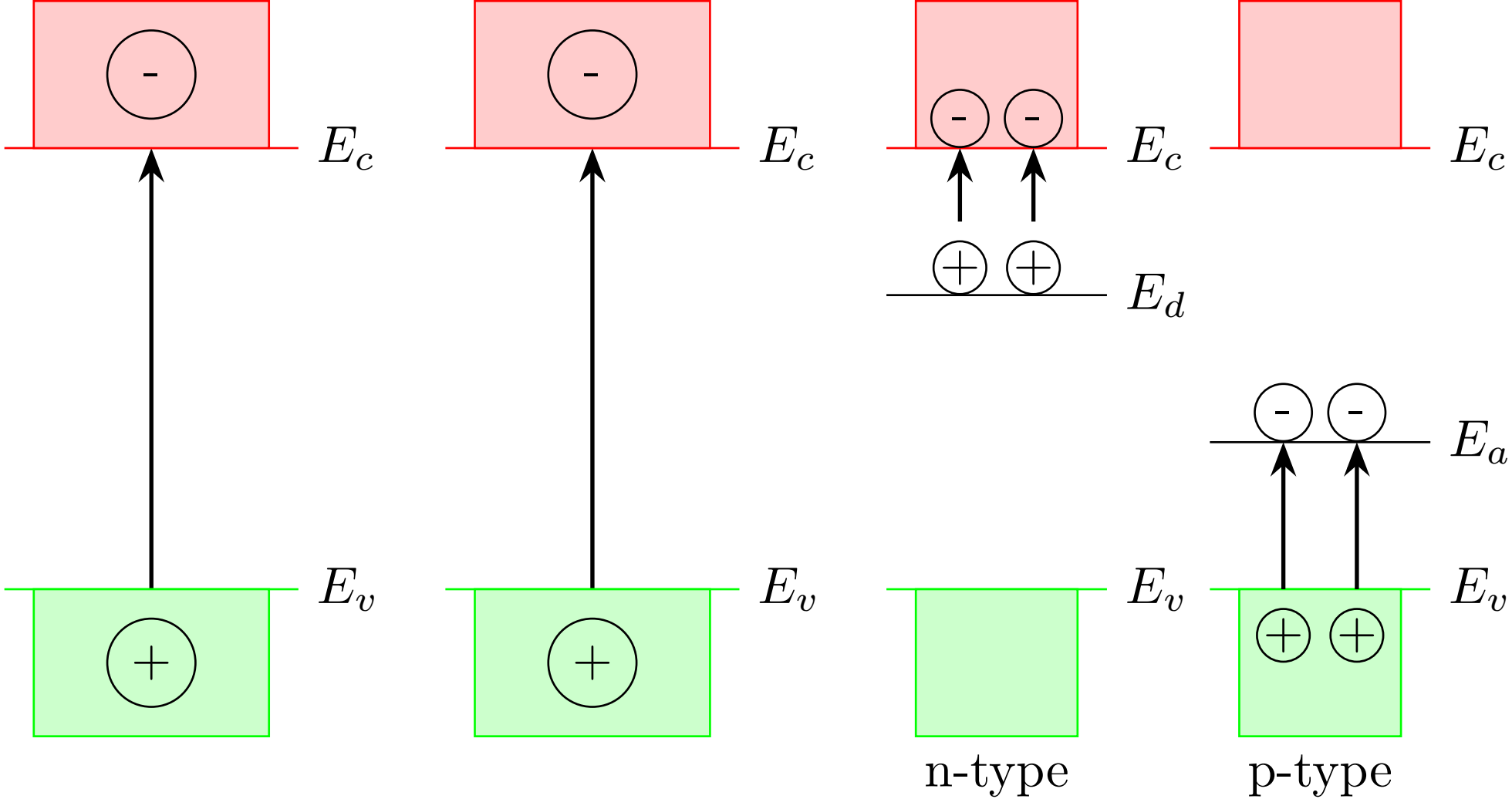

a) Thermal Excitation

b) Photoexcitation

c) Doping