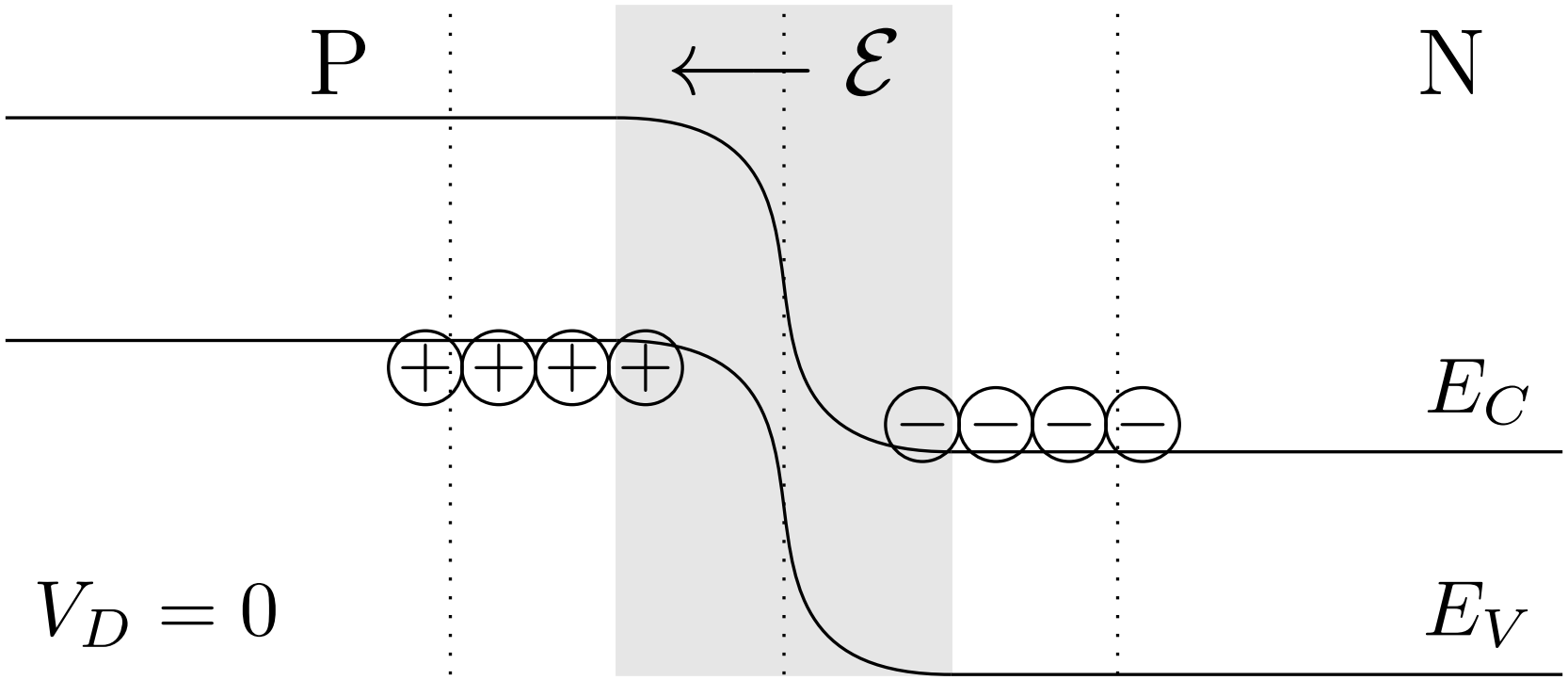
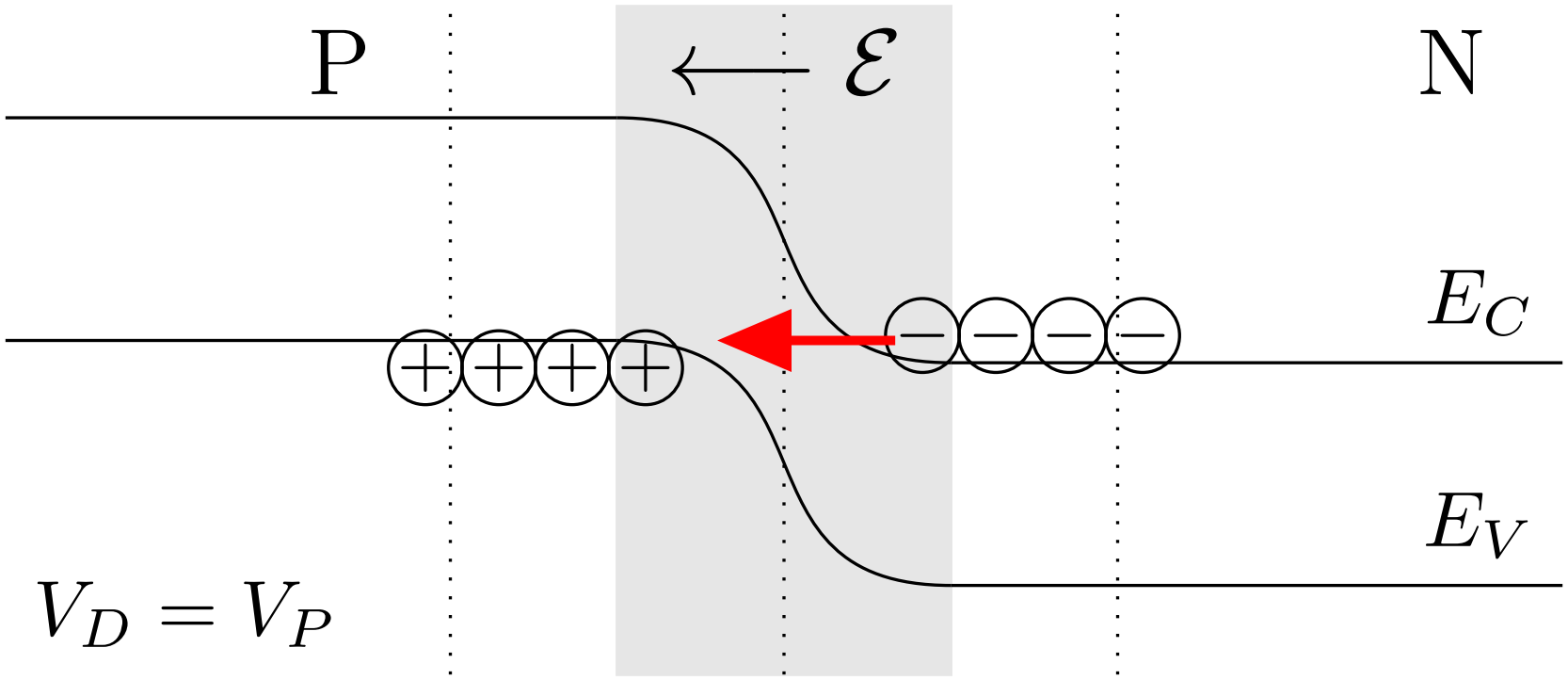
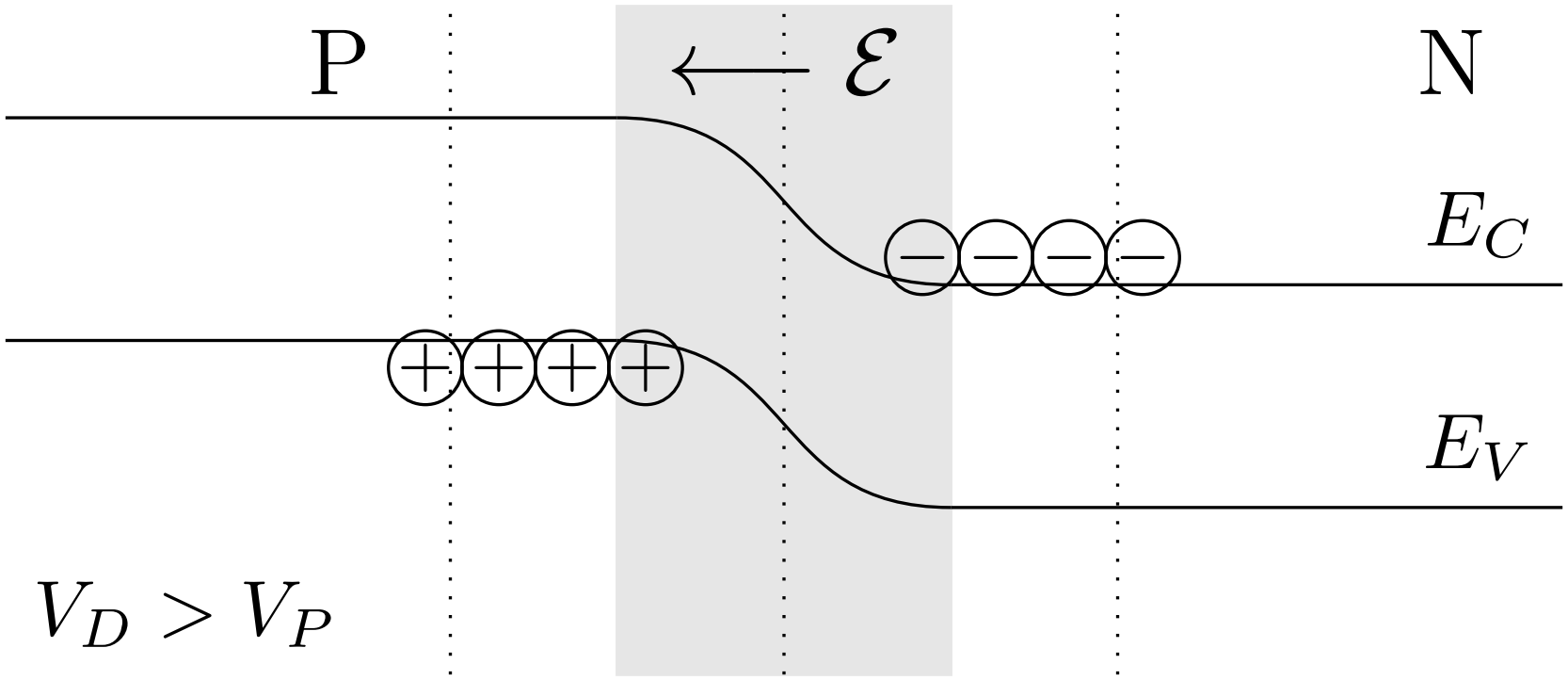

P
$\mathcal{E}$
N
E_C
E_V
$V_D = 0$


P
$\mathcal{E}$
N
E_C
E_V
$V_D = V_P$


P
$\mathcal{E}$
N
E_C
E_V
$V_D > V_P$