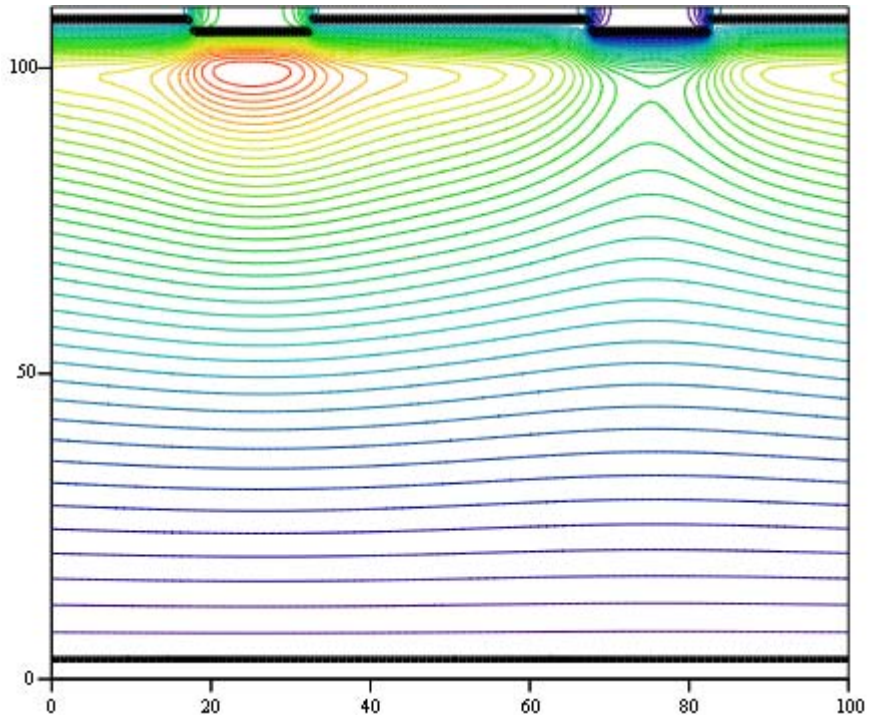
OPCCD potential, concentration gradient

- An alternative means of introducing asymmetry in the OPCCD is to introduce a gradient in the dopant concentration in the buried channel.
- Here the concentration at the left hand edge of the left-hand gate is 25% higher than at the right-hand edge of the pedestal gate.

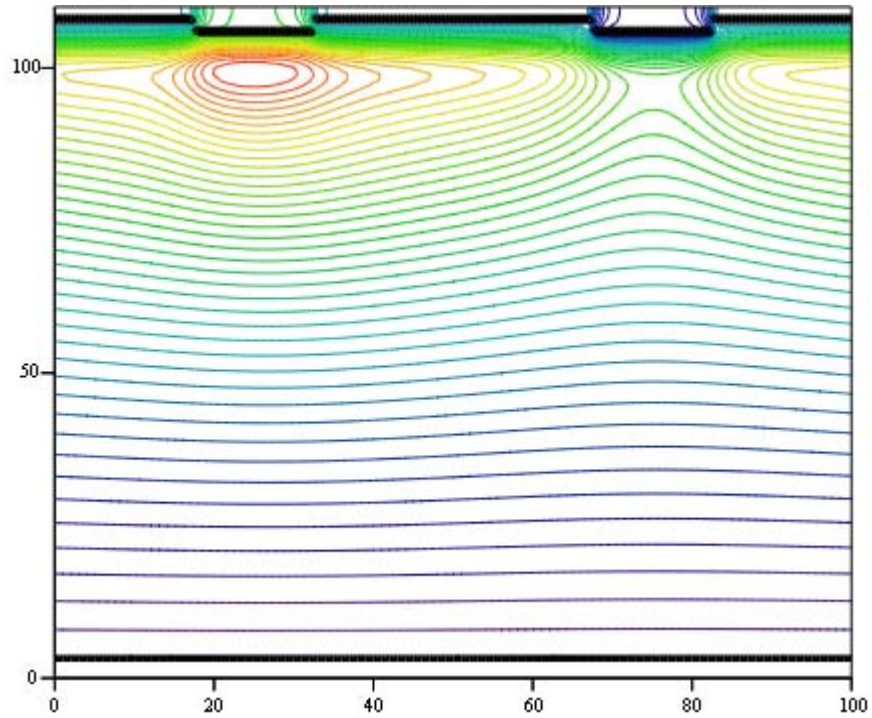
- $\phi_1 = 2.0$ V, $\phi_2 = 0.0$ V.



Una, εCPC2

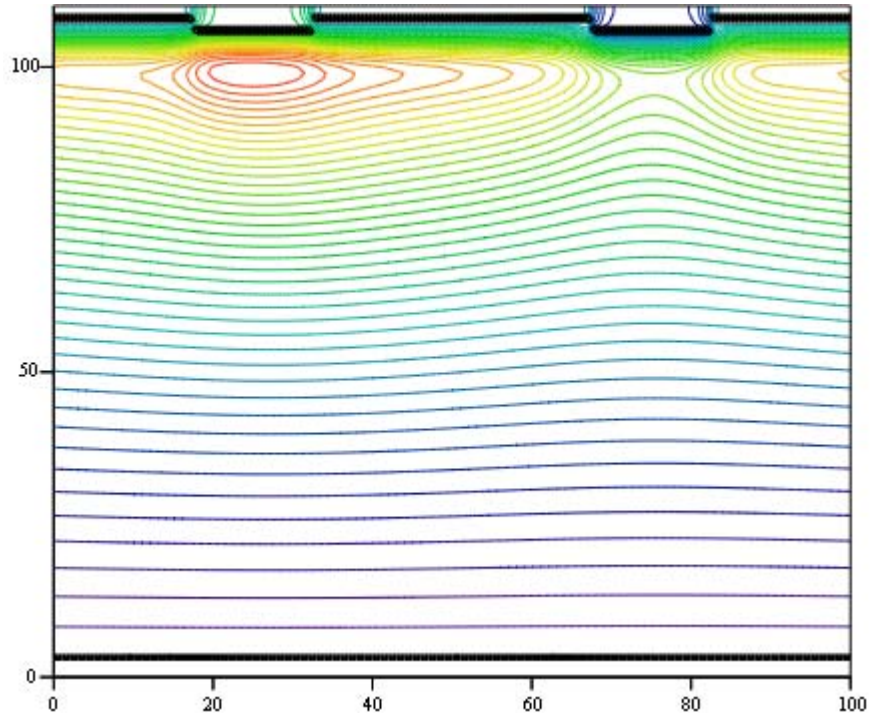
OPCCD potential, concentration gradient

- ϕ_1 = 1.8 V, ϕ_2 = 0.2 V.



Una, εCPC2

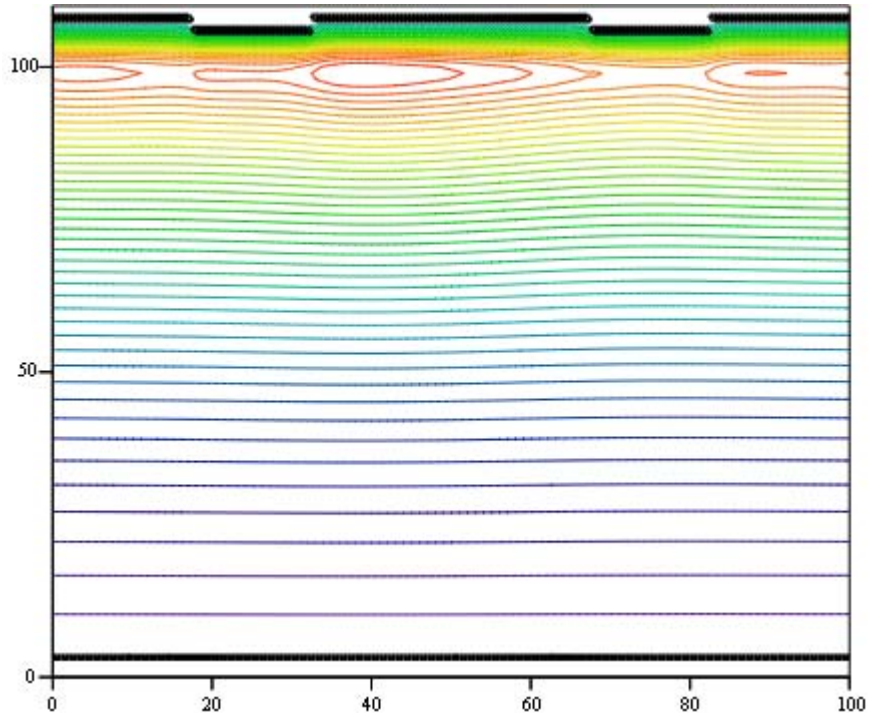
- ϕ_1 = 1.6 V, ϕ_2 = 0.4 V.



Una, εCPC2

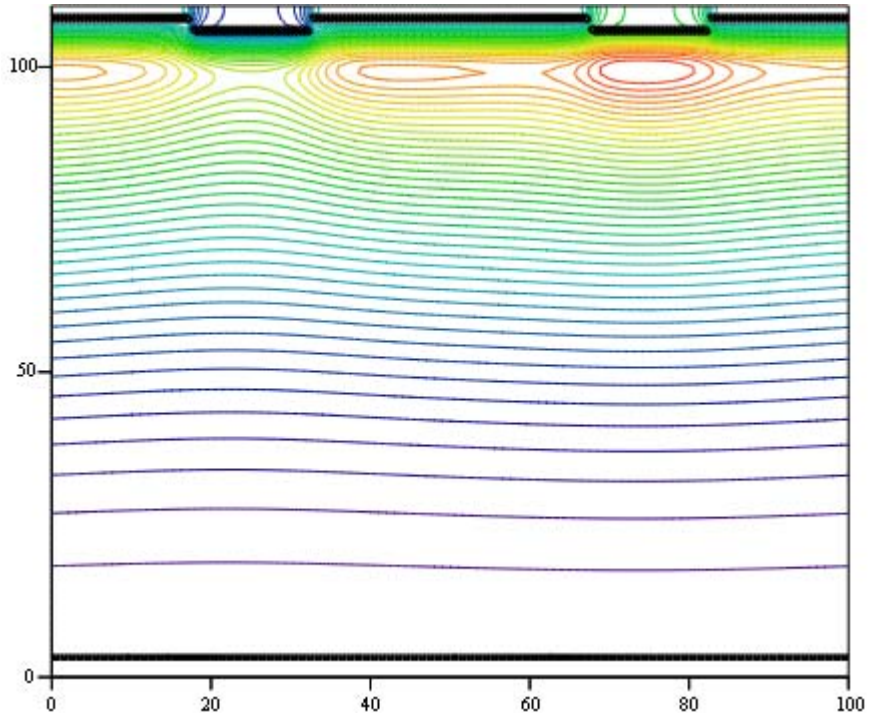
OPCCD potential, concentration gradient

- ϕ_1 = 1.0 V, ϕ_2 = 1.0 V.



Una, εCPC2

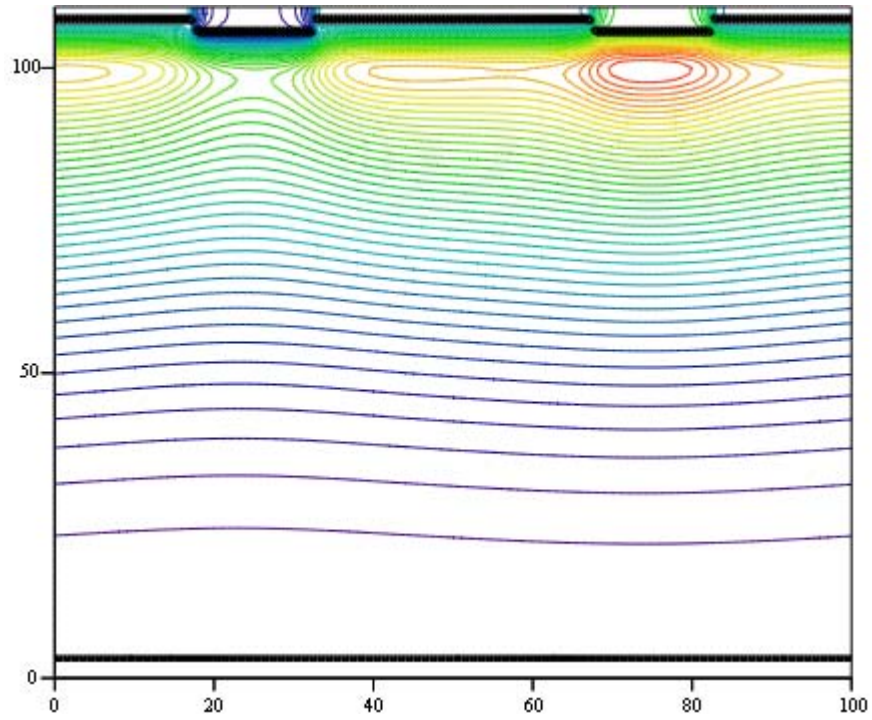
- ϕ_1 = 0.4 V, ϕ_2 = 1.6 V.



Una, εCPC2

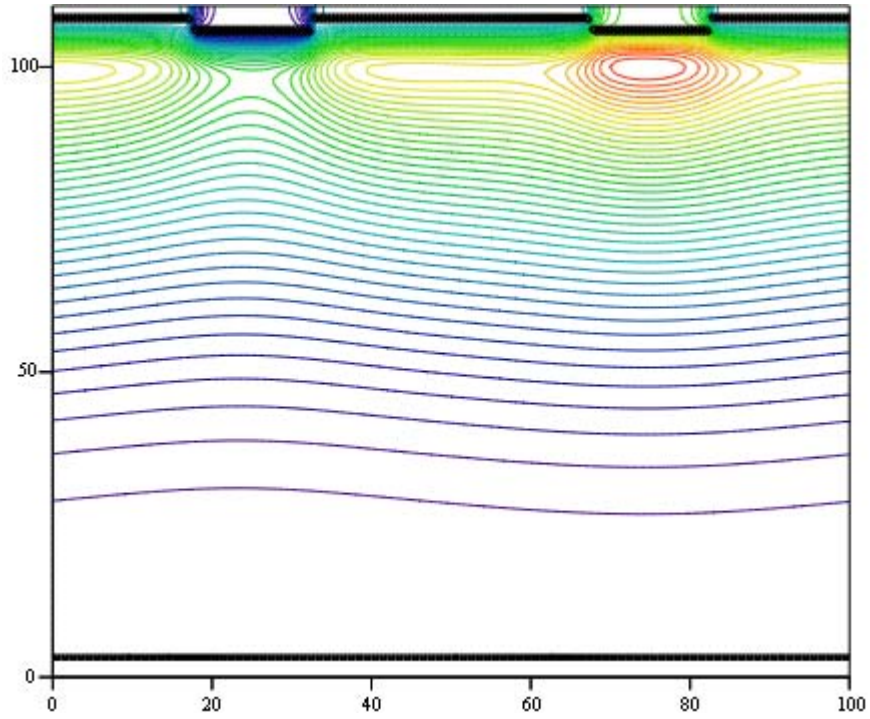
OPCCD potential, concentration gradient

- ϕ_1 = 0.2 V, ϕ_2 = 1.8 V.



Una, εCPC2

- ϕ_1 = 0.0 V, ϕ_2 = 2.0 V.



Una, εCPC2