```
Input the p-side doping, NA= 1e15
Input the n-side doping, ND = 1e15
V0 =
 0.5754
Bias voltage, V (Smaller than V0 for forward bias)= 0.5
COMPUTATIONAL RESULTS
NA =
 1.0000e+15
ND =
 1.0000e+15
V =
 0.5000
V0 =
  0.5754
xn =
 2.2184e-05
xp =
 2.2184e-05
W =
 4.4368e-05
E0 =
-3.3973e+03
```

```
Input the p-side doping, NA= 1e15
Input the n-side doping, ND = 1e15
V0 =
 0.5754
Bias voltage, V (Smaller than V0 for forward bias)= 0
COMPUTATIONAL RESULTS
NA =
 1.0000e+15
ND =
 1.0000e+15
V =
  0
V0 =
  0.5754
xn =
 6.1295e-05
xp =
 6.1295e-05
W =
 1.2259e-04
E0 =
-9.3869e+03
```

```
Input the p-side doping, NA= 1e15
Input the n-side doping, ND = 1e15
V0 =
 0.5754
Bias voltage, V (Smaller than V0 for forward bias)= -10
COMPUTATIONAL RESULTS
NA =
 1.0000e+15
ND =
 1.0000e+15
V =
 -10
V0 =
  0.5754
xn =
 2.6278e-04
xp =
 2.6278e-04
W =
 5.2557e-04
E0 =
-4.0244e+04
```

```
Input the p-side doping, NA= 1e16
Input the n-side doping, ND = 1e16
V0 =
  0.6946
Bias voltage, V (Smaller than V0 for forward bias)= 0.5
COMPUTATIONAL RESULTS
NA =
 1.0000e+16
ND =
 1.0000e+16
V =
 0.5000
V0 =
  0.6946
xn =
 1.1274e-05
xp =
 1.1274e-05
W =
 2.2547e-05
E0 =
-1.7265e+04
```

```
Input the p-side doping, NA= 1e16
Input the n-side doping, ND = 1e16
V0 =
  0.6946
Bias voltage, V (Smaller than V0 for forward bias)= 0
COMPUTATIONAL RESULTS
NA =
 1.0000e+16
ND =
 1.0000e+16
V =
  0
V0 =
  0.6946
xn =
 2.1298e-05
xp =
 2.1298e-05
W =
 4.2595e-05
E0 =
-3.2616e+04
```

```
Input the p-side doping, NA= 1e16
Input the n-side doping, ND = 1e16
V0 =
  0.6946
Bias voltage, V (Smaller than V0 for forward bias)= -10
COMPUTATIONAL RESULTS
NA =
 1.0000e+16
ND =
 1.0000e+16
V =
 -10
V0 =
  0.6946
xn =
 8.3567e-05
xp =
 8.3567e-05
W =
 1.6713e-04
E0 =
-1.2798e+05
```

```
Input the p-side doping, NA= 1e17
Input the n-side doping, ND = 1e17
V0 =
 0.8139
Bias voltage, V (Smaller than V0 for forward bias)= 0.5
COMPUTATIONAL RESULTS
NA =
 1.0000e+17
ND =
 1.0000e+17
V =
 0.5000
V0 =
  0.8139
xn =
 4.5275e-06
xp =
 4.5275e-06
W =
 9.0550e-06
E0 =
-6.9335e+04
```

```
Input the p-side doping, NA= 1e17
Input the n-side doping, ND = 1e17
V0 =
 0.8139
Bias voltage, V (Smaller than V0 for forward bias)= 0
COMPUTATIONAL RESULTS
NA =
 1.0000e+17
ND =
 1.0000e+17
V =
  0
V0 =
  0.8139
xn =
 7.2902e-06
xp =
 7.2902e-06
W =
 1.4580e-05
E0 =
-1.1164e+05
```

```
Input the p-side doping, NA= 1e17
Input the n-side doping, ND = 1e17
V0 =
 0.8139
Bias voltage, V (Smaller than V0 for forward bias)= -10
COMPUTATIONAL RESULTS
NA =
 1.0000e+17
ND =
 1.0000e+17
V =
 -10
V0 =
  0.8139
xn =
 2.6573e-05
xp =
 2.6573e-05
W =
 5.3146e-05
E0 =
-4.0695e+05
```

```
Input the p-side doping, NA= 1e18
Input the n-side doping, ND = 1e18
V0 =
 0.9332
Bias voltage, V (Smaller than V0 for forward bias)= 0.5
COMPUTATIONAL RESULTS
NA =
 1.0000e+18
ND =
 1.0000e+18
V =
 0.5000
V0 =
  0.9332
xn =
 1.6819e-06
xp =
 1.6819e-06
W =
 3.3637e-06
E0 =
-2.5757e+05
```

```
Input the p-side doping, NA= 1e18
Input the n-side doping, ND = 1e18
V0 =
 0.9332
Bias voltage, V (Smaller than V0 for forward bias)= 0
COMPUTATIONAL RESULTS
NA =
 1.0000e+18
ND =
 1.0000e+18
V =
  0
V0 =
  0.9332
xn =
 2.4685e-06
xp =
 2.4685e-06
W =
 4.9370e-06
E0 =
-3.7804e+05
```

```
Input the p-side doping, NA= 1e18
Input the n-side doping, ND = 1e18
V0 =
 0.9332
Bias voltage, V (Smaller than V0 for forward bias)= -10
COMPUTATIONAL RESULTS
NA =
 1.0000e+18
ND =
 1.0000e+18
V =
 -10
V0 =
  0.9332
xn =
 8.4494e-06
xp =
 8.4494e-06
W =
 1.6899e-05
E0 =
-1.2940e+06
```

```
Input the p-side doping, NA= 1e15
Input the n-side doping, ND = 1e18
V0 =
 0.7543
Bias voltage, V (Smaller than V0 for forward bias)= 0.5
COMPUTATIONAL RESULTS
NA =
 1.0000e+15
ND =
 1.0000e+18
V =
 0.5000
V0 =
 0.7543
xn =
 5.7597e-08
xp =
 5.7597e-05
W =
 5.7655e-05
E0 =
-8.8207e+03
```

```
Input the p-side doping, NA= 1e15
Input the n-side doping, ND = 1e18
V0 =
 0.7543
Bias voltage, V (Smaller than V0 for forward bias)= 0
COMPUTATIONAL RESULTS
NA =
 1.0000e+15
ND =
 1.0000e+18
V =
  0
V0 =
  0.7543
xn =
 9.9201e-08
xp =
 9.9201e-05
W =
 9.9300e-05
E0 =
-1.5192e+04
```

```
Input the p-side doping, NA= 1e15
Input the n-side doping, ND = 1e18
V0 =
 0.7543
Bias voltage, V (Smaller than V0 for forward bias)= -10
COMPUTATIONAL RESULTS
NA =
 1.0000e+15
ND =
 1.0000e+18
V =
 -10
V0 =
  0.7543
xn =
 3.7458e-07
xp =
 3.7458e-04
W =
 3.7495e-04
E0 =
-5.7364e+04
```

```
Input the p-side doping, NA= 1e18
Input the n-side doping, ND = 1e15
V0 =
 0.7543
Bias voltage, V (Smaller than V0 for forward bias)= 0.5
COMPUTATIONAL RESULTS
NA =
 1.0000e+18
ND =
 1.0000e+15
V =
 0.5000
V0 =
 0.7543
xn =
 5.7597e-05
xp =
 5.7597e-08
W =
 5.7655e-05
E0 =
-8.8207e+03
```

```
Input the p-side doping, NA= 1e18
Input the n-side doping, ND = 1e15
V0 =
 0.7543
Bias voltage, V (Smaller than V0 for forward bias)= 0
COMPUTATIONAL RESULTS
NA =
 1.0000e+18
ND =
 1.0000e+15
V =
  0
V0 =
  0.7543
xn =
 9.9201e-05
xp =
 9.9201e-08
W =
 9.9300e-05
E0 =
-1.5192e+04
```

```
Input the p-side doping, NA= 1e18
Input the n-side doping, ND = 1e15
V0 =
 0.7543
Bias voltage, V (Smaller than V0 for forward bias)= -10
COMPUTATIONAL RESULTS
NA =
 1.0000e+18
ND =
 1.0000e+15
V =
 -10
V0 =
  0.7543
xn =
 3.7458e-04
xp =
 3.7458e-07
W =
 3.7495e-04
E0 =
-5.7364e+04
```