

Chapter 3 SOLUTIONS

1) a) $I_D = \frac{V_{in} - 2V_{D0n}}{R_1 + R_2}$
 $= \frac{2.5 - 1.4}{4k\Omega} = \frac{1.1V}{4k\Omega}$

$I_D = 275\mu A$

b) $I_S = 10^{-16} A$, $T = 300K$, $V_{D0n} = 0.7V$

$I_D = I_S (e^{V_D/\phi_T} - 1)$

where $\phi_T = \frac{kT}{q} = 26mV @ 300K$

★ $I_D = \frac{V_{in} - 2V_D}{R_1 + R_2} = I_S (e^{V_D/\phi_T} - 1)$
 $\frac{2.5 - 2V_D}{4k\Omega} = 10^{-16} (e^{V_D/0.026} - 1)$

iterating on this expression
 we can obtain.

$V_D = 0.628V$
 $I_D = 311\mu A$

c) SPICE

exercise 3.1

vin in 0 dc 2.5
 r1 in 2 2k
 d1 2 3 D
 r2 3 out 2k
 d2 out 0 D

.options post=2
 .op

.model D D level=1 is=1e-16 nr=0.5
 .end

 NODE VOLTAGE
 2 1.8750E+00
 3 1.2500E+00
 OUT 6.2501E-01

CURRENT 3.1249E-04

d) $I_S = 10^{-16} A$, $T = 300K$;
 again use ★ from b and iterate
 to find:

$V_D = 0.743V$
 $I_D = 253\mu A$

$I_S = 10^{-14} A$, $T = 350K$;

$V_D = 0.728V$
 $I_D = 261\mu A$

exercise 3.1d
 vin in 0 dc 2.5
 r1 in 2 2k
 d1 2 3 D
 r2 3 out 2k
 d2 out 0 D

.options post=2
 .op

* temp=27
 .temp 77
 * model D D level=1 is=1e-16 nr=0.5
 .model D D level=1 is=1e-14 nr=0.5
 .end

 t=27C
 NODE VOLTAGE
 2 1.9889E+00
 3 1.2500E+00
 IN 2.5000E+00
 OUT 7.3892E-01

ID 2.5554E-04

 t=77C
 NODE VOLTAGE
 2 1.7844E+00
 3 1.2500E+00
 IN 2.5000E+00
 OUT 5.3436E-01
 ID 3.3782E-04

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Sung-Mo Kang, Yusuf Leblebici



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