

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) $I_S = 10^{-14} A$, $T = 300 K$, $V_{D0n} = 0.7 V$

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

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

⊛ $I_D = \frac{V_{in} - 2V_D}{R_1 + R_2} = I_S (e^{V_D/\phi_T} - 1)$
 $\frac{2.5 - 2V_D}{4k\Omega} = 10^{-14} (e^{V_D/0.026} - 1)$

iterating on this expression
 we can obtain.

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

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-14 m=0.5

.end

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

CURRENT 3.1249E-04

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

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

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

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

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 m=0.5
 .model D D level=1 is=1e-14 m=0.5
 .end

t=27C
 NODE VOLTAGE
 2 1.9449E+00
 3 1.2500E+00
 IN 2.5000E+00
 OUT 7.3892E-01

ID 2.3554E-04

 t=77C
 NODE VOLTAGE
 2 1.7844E+00
 3 1.2500E+00
 IN 2.5000E+00
 OUT 5.3436E-01
 ID 3.5782E-04

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Arturo Cuomo



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instead

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during simulated y site administration was evaluated methods study drugs were selected based on the lack of compatibility
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