Announcements:

now via Gradescope

Lab#3 continues next week

Oct. 14 and thereafter

Monday lecture

Oct. 7

• Midterm 1 on Friday, Oct. 11

Lecture 16: Bipolar Junction Transistors (BJTs) I

Sprelab due before lab next week

♦ We have 7-9 p.m., 160 Kroeber Hall

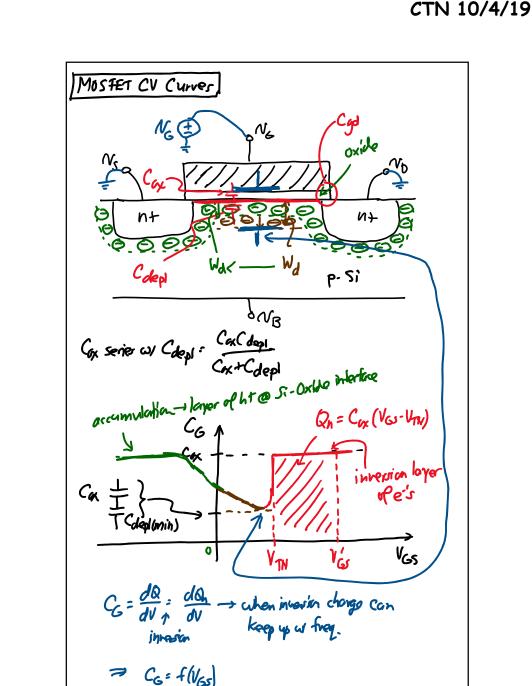
Specific problems you would like covered

• My Monday Office Hours will move to 5-6 p.m. on

• I am traveling today and will still be gone Monday,

♦ This lecture is pre-recorded as will be the

• HW#6 online soon and due Friday two weeks from

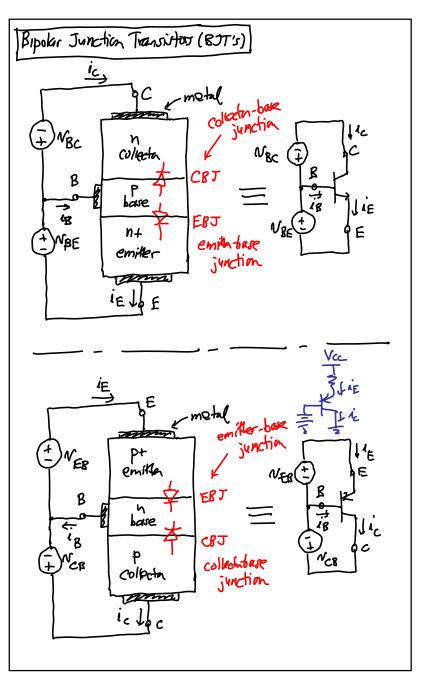


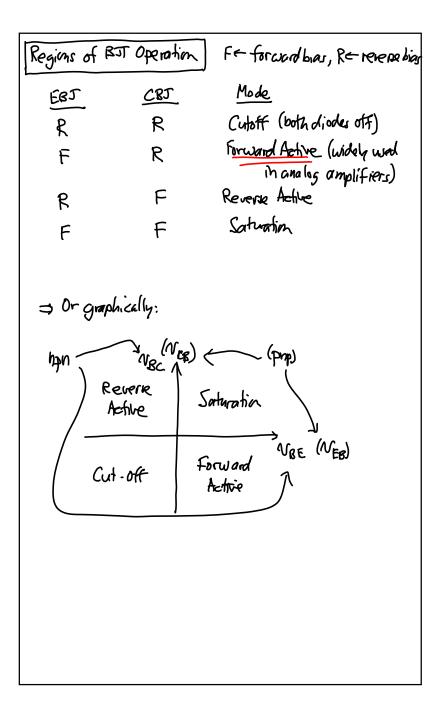
Vill be back on Wednesday, Oct. 9
Lecture Topics:
MOS CV Curve
Bipolar Junction Transistor (BJT)

Regions of Operation
Cutoff
Forward-Active

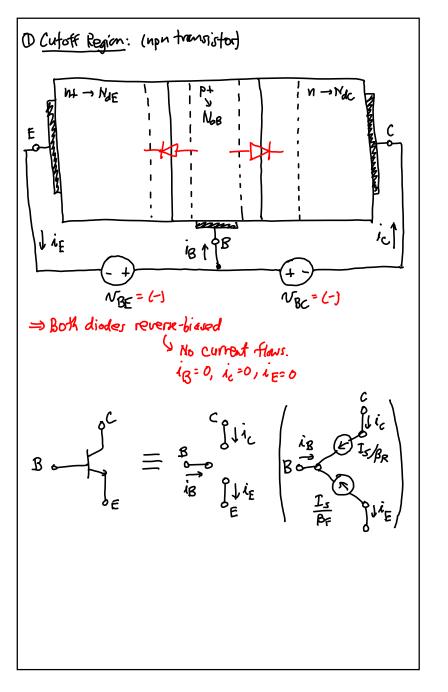
Last Time:

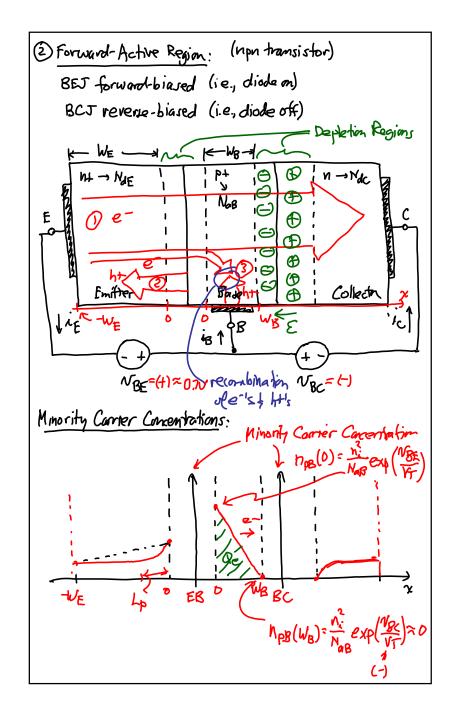
Almost finished with MOS physics (for now)
Now, finish it, then proceed with BJTs





Copyright © 2019 Regents of the University of California

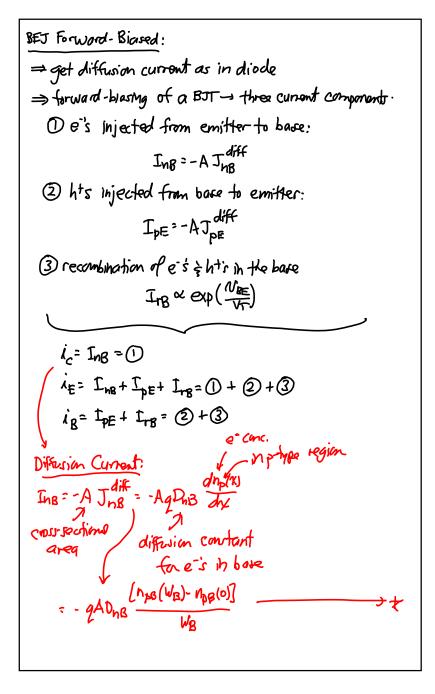


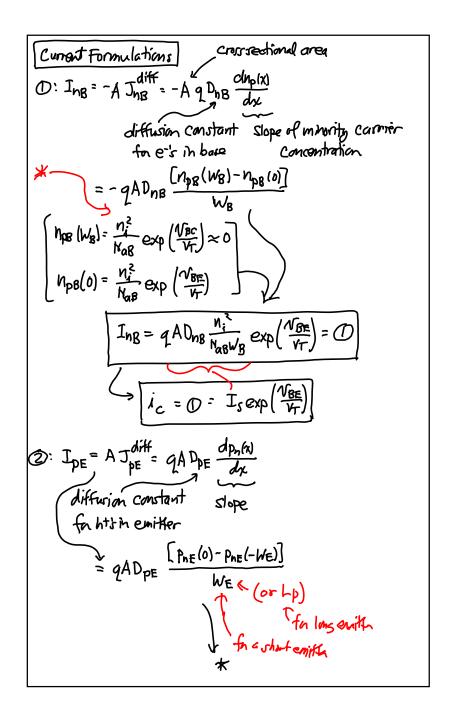


3

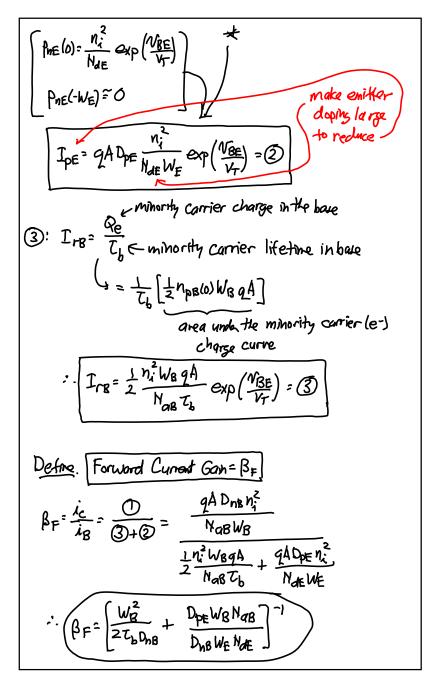
CTN 10/4/19

CTN 10/4/19





Copyright © 2019 Regents of the University of California



To maximize BF, Want. 1) WB = Small Note >> NaB - leads DpE << DnE</p> ③ Tb= large → base Si should be tree of >This is why emitter is nt. impuritien/delectr to prevent recombination. of e's 's ht's

CTN 10/4/19