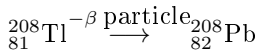
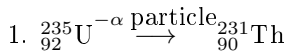
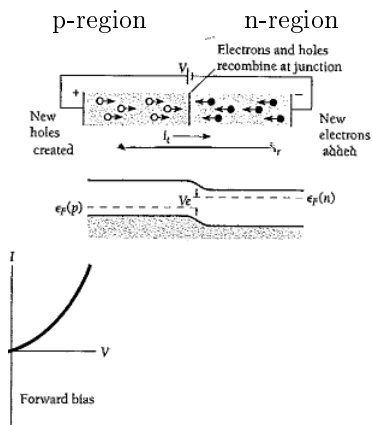


solutions for quiz: Mar12:

Gr I:

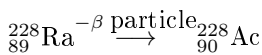
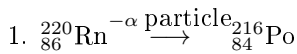


2. Forward bias of a diode:

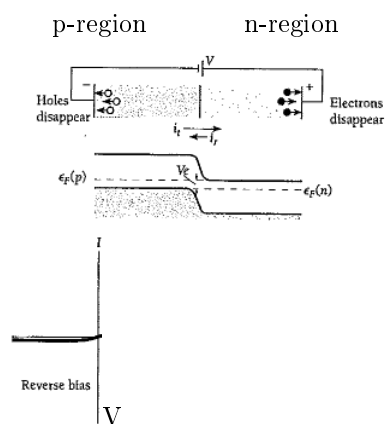


When an external voltage is applied so that the p end of the diode is positive, the recombination current can be much larger than the thermal electron current to give a large net electron current to the left.

Gr II :



2. Reverse bias of a diode:



When an external voltage is applied so that the p end of the diode is negative, the recombination electron current is less than the thermal electron current. The result is a very small net electron current to the right.