

UM-SJTU JI Summer 2020 VE 320 Quiz 2

Name:

Student ID:

1. What does n-type doping and p-type doping mean for Si, respectively? Please draw the energy band diagram and explain.

2. How to determine the effective mass of electron in silicon, in theoretical calculation and using experiments, respectively?

3. What type of charge does the hole carrier have in a semiconductor? Which part of the energy band is it in?