Lecture 18
Outline

Chapter 6  pn Junction Diode: I-V Characteristics

6.1  Ideal Diode Equation
    6.1.1 Qualitative Derivation
        ▪ Potential hill
        ▪ Potential energy barrier
        ▪ Energy band diagrams (Figure 6.1)
        ▪ I-V characteristics

    6.1.2 Quantitative Solution Strategy
        ▪ General considerations
        ▪ Quasi-neutral Region considerations
        ▪ Depletion region considerations
        ▪ Boundary conditions

Reading: Chapter 6.1.1, 6.1.2