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Derivation of the Metal-Semiconductor junction current. 3.5 Metal-Semiconductor contacts.
3.5.1. Ohmic contacts 3.5.2. Tunnel contacts 3.5.3. Annealed and alloyed contacts 3.5.4. Contact resistance to a thin semiconductor layer. 3.6 Metal-Semiconductor Field Effect Transistors (MESFETs) 3.7 Schottky diode with an interfacial layer 3.8 Other unipolar junctions. 3.8.1.

Principles of Semiconductor Devices

Principles of Semiconductor Devices L Length m L_n Electron diffusion length m L_p Hole diffusion length m m Mass kg m_0 Free electron mass kg m_e^* Effective mass of electrons kg m_h^* Effective mass of holes kg n Electron density m^{-3} n_i Intrinsic carrier density m^{-3} $n(E)$ Electron density per unit energy and per unit volume m^{-3}

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The purpose of this chapter is to review the physical concepts, which are needed to understand the semiconductor fundamentals of semiconductor devices. While an attempt was made to make this section comprehensible even to readers with a minimal background in the different areas of physics, readers are still referred to the bibliography for a more thorough treatment of this material.

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