

5.1 BJT Device Structure and Physical Operation

Reading Assignment: *pp. 377-392*

Another kind of transistor is the **Bipolar Junction Transistor (BJT)**.

BJTs are **analogous** to MOSFETs in many ways:

- 1.
- 2.
- 3.
- 4.

The two types of BJTs are *npn* and *pnp* (**analogous** to NMOS and PMOS).

A BJT is a "Silicon sandwich" -one type of Si sandwiched between two layers of the other.

→

HO: BJT Structures and Modes of Operation

HO: The npn BJT in the Active Operating Region

HO: The npn BJT in the Saturation

HO: The npn BJT in the Cutoff