

Chapter 4

Introduction to Bipolar Junction Transistors (BJTs)

4.1 Introduction [5]

The transistor was invented by a team of three men at Bell Laboratories in 1947. Although this first transistor was not a bipolar junction device, it was the beginning of a technological revolution that is still continuing. All of the complex electronic devices and systems today are an outgrowth of early developments in semiconductor transistors. Two basic types of transistors are the bipolar junction transistor (BJT) and the field-effect transistor (FET). The BJT is used in two broad areas- as a linear amplifier to amplify an electrical signal and as an electronic switch.

4.2 Transistor Structure [5]

The BJT (bipolar junction transistor) is constructed with three doped semiconductor regions separated by two p-n junctions, as shown in the epitaxial planar structure in Figure 4.1(a). The three regions are called emitter (E), base (B), and collector (C).

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