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Signal amplification is important in many applications, such as telecommunications. Before the advent of transistors, signal amplification was accomplished using vacuum tubes. Transistors

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Transistors are much smaller and do not need a long warm-up time needed with vacuum tubes. The invention of the

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Transistors - [wiki.ctsnet.org](http://wiki.ctsnet.org)

Bipolar Junction Transistors

Chapter Summary: The bipolar junction transistor (BJT) is a three-terminal device. The terminals are called the emitter, base, and collector. As shown in Figure 6-1, the collector and emitter are

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Transistors made using the same type of

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362 Bipolar Junction Transistors  
(BJT) Chapter 6 +3 V  $R_p$  2.2  $\Omega$   $R_B$   
20 k $\Omega$   $R_c$  2.2 k $\Omega$  -3 V Figure P6.58  
6.59 In the circuit shown in Fig.

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P6.58, the transistor has  $\beta=50$ .  
Find the values of  $V_{ce}$ ,  $I_E$ , and  $V_{cb}$ ,

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## Bipolar Junction

Junction Transistors ...

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Chapter 6 • A three terminal device • Invented in 1948 at Bell Telephone Laboratories • Ushered in a new era of solid-state circuits • Replaced by MOSFET as predominant transistors

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- Simplified structure of the npn transistor npn symbol pnp symbol
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Introduction. •IN THIS CHAPTER  
YOU WILL LEARN. •The physical  
structure of the bipolar transistor  
and how it works. •How the

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voltage between two terminals of the transistor controls the current that flows through the third terminal, and the equations that describe these current-voltage relationships.

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Basic about BJT Invention  
Invented in 1948 by Bardeen,

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## Bipolar Junction

Transistors  
Brattain and Shockley in Bell Lab  
(First Transistor) Bipolar Both  
types of carriers (electron and  
hole) play important roles in  
operation of BJT Field Effect  
Transistor (FET) is unipolar  
minority device.

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The physical structure of the bipolar transistor and how it works. How the voltage between two terminals of the transistor controls ...

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Bipolar transistors are so named because the controlled current must go through two types of semiconductor material: P and N. The current consists of both

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Transistors  
electron and hole flow, in different parts of the transistor. Bipolar transistors consist of either a P-N-P or an N-P-N semiconductor “sandwich” structure.

Introduction to Bipolar Junction

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The hybrid pi model of a BJT is a small signal model, named after

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the “p”-like equivalent circuit for a bipolar junction transistor. The model is shown in Figure 5.6.1. It consists of an input impedance,  $r_p$ , an output impedance  $r_o$ , and a voltage controlled current source described by the transconductance,  $g_m$ . In addition

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It contains the base-emitter capacitances, the junction capacitance ...

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## Bipolar Junction

- The two junctions are termed the base-emitter junction and the base-collector junction
- The term bipolar refers to the use of both holes and electrons as charge carriers in the transistor structure
- In order for the transistor to operate properly, the two

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## Bipolar Junction

Transistors must have the correct dc bias voltages - the base-emitter (BE) junction is forward biased ( $\geq 0.7V$  for Si,  $\geq 0.3V$  for Ge) - the base-collector (BC) junction is reverse biased

Architecture of a BJTs

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Below are the answers key for Multiple Choice Questions in Chapter 6: Bipolar Junction Transistors from the book Electronic Principles 7th Edition by Albert Malvino. Make sure to familiarize each and every

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Transistors  
questions to increase the chance  
of passing the ECE Board Exam.

1. c.
2. a. Amplify weak signals.
3. d. Schockley.
4. b. Holes.
5. c.
6. a. Forward-biased.
7. b.

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3.

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Describe the motion of electrons and holes in a pnp bipolar transistor biased in the forward active mode with  $V_{BC} = 0$ . What is the definition of the emitter efficiency? Explain in words and provide the corresponding equation.

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