

Chapter 1

Introduction to Electronics

Question 1.1: Atomic Structure

- 1. The atom is the smallest particle of matter that cannot be created or destroyed.
- 2. The atom is made up of three subatomic particles: electrons, protons, and neutrons.

Question 1.2: Materials Used in Electronics

- 3. The materials used in electronics are classified into three categories: conductors, insulators, and semiconductors.
- 4. The most common conductor used in electronics is copper.
- 5. The most common insulator used in electronics is rubber.

Question 1.3: Current in Conductors

- 6. Current is the flow of electric charge through a conductor.
- 7. Current is measured in amperes (A).

Question 1.4: N-Type and P-Type Semiconductors

- 8. N-type semiconductor is formed by adding a small amount of pentavalent impurity to an intrinsic semiconductor.
- 9. P-type semiconductor is formed by adding a small amount of trivalent impurity to an intrinsic semiconductor.

Question 1.5: The PN Junction

- 10. The PN junction is formed by joining an N-type semiconductor and a P-type semiconductor.
- 11. The PN junction is used in many electronic devices, such as diodes, transistors, and solar cells.

Electronic Devices Floyd 9th Edition Solution Manual

Wolfgang Guggemos



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