

Chapter 1

Introduction to Electronics

Question A.1: Atomic Structure

- (a) The atom is the smallest constituent of matter that retains all the chemical properties of the element.
- (b) The atom is made up of three subatomic particles: electrons, protons, and neutrons.

Question A.2: Materials Used for Electronics

- (a) The materials are generally classified into three categories: conductors, semiconductors, and insulators.
- (b) The most commonly used semiconductor material is silicon.
- (c) An atom is made up of three subatomic particles: electrons, protons, and neutrons.

Question A.3: Current in Semiconductors

- (a) Current is the flow of electric charge. In semiconductors, it is carried by both electrons and holes.
- (b) Current is produced when an electric field is applied across the semiconductor.

Question A.4: N-Type and P-Type Semiconductors

- (a) In an N-type semiconductor, the majority carriers are electrons. It is formed by adding a small amount of pentavalent impurity to an intrinsic semiconductor.
- (b) In a P-type semiconductor, the majority carriers are holes. It is formed by adding a small amount of trivalent impurity to an intrinsic semiconductor.

Question A.5: The PN Junction

- (a) The PN junction is formed by joining an N-type semiconductor with a P-type semiconductor. It is a fundamental building block of most electronic devices.
- (b) The PN junction is a semiconductor device that allows current to flow in one direction and blocks it in the other direction. It is used in diodes, transistors, and other electronic devices.

Electronic Devices 9th Edition Floyd Solution Manual

RJ Shavelson



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