

Physics Notes Class 12 Chapter 14

Semiconductor Electronics, Materials, Devices and Sample Circuits

It is the branch of science which deals with the electron flow through a vacuum, gas or semiconductor.

Classification of substances on the basis of conduction of electricity.

Solid

We know that, each substance is composed of atoms. Substances are mainly classified into three categories namely solids, liquids and gases.

In each solid atoms are at a definite positions and the average distance between them is constant.

Depending upon the internal arrangement of atoms, solids are further divided into two groups.

1. Crystalline Solids

The solid in which the atoms are arranged in a regular order are called the crystalline solids. In other words, we can say that in a crystalline solid, there is periodicity and regularity of its component atoms in all the directions. For example sodium chloride (common salt), diamond, Sugar, silver etc are the crystalline solids.

Their atoms are arranged in a definite geometrical shape.

They have a definite melting point.

They are anisotropic, i.e., their physical properties such as thermal Conductivity refractive index etc, are different in different directions.

They are the real solids.

2. Amorphous Solids

The Solids in which the atoms do not have a definite arrangement are called the amorphous solids. They are also called the glassy solids. For example glass, rubber, plastic, paper, etc are the amorphous solids.

They do not have a definite arrangement of its atoms, i.e., they do not have a characteristic geometrical shape.

Physics Notes Class 12 Chapter 14 Semiconductor

Kathleen Armour

A decorative graphic element consisting of a semi-circular shape with a red-to-white gradient, positioned to the right of the author's name.

Physics Notes Class 12 Chapter 14 Semiconductor:

The book delves into Physics Notes Class 12 Chapter 14 Semiconductor. Physics Notes Class 12 Chapter 14 Semiconductor is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physics Notes Class 12 Chapter 14 Semiconductor, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physics Notes Class 12 Chapter 14 Semiconductor
 - Chapter 2: Essential Elements of Physics Notes Class 12 Chapter 14 Semiconductor
 - Chapter 3: Physics Notes Class 12 Chapter 14 Semiconductor in Everyday Life
 - Chapter 4: Physics Notes Class 12 Chapter 14 Semiconductor in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Physics Notes Class 12 Chapter 14 Semiconductor. This chapter will explore what Physics Notes Class 12 Chapter 14 Semiconductor is, why Physics Notes Class 12 Chapter 14 Semiconductor is vital, and how to effectively learn about Physics Notes Class 12 Chapter 14 Semiconductor.
 3. In chapter 2, this book will delve into the foundational concepts of Physics Notes Class 12 Chapter 14 Semiconductor. The second chapter will elucidate the essential principles that must be understood to grasp Physics Notes Class 12 Chapter 14 Semiconductor in its entirety.
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