

SEMICONDUCTOR

There are a large number of materials which have resistivities lying between those of an insulator and a conductor (See table). Such material are known as 'semiconductors'.

At absolute zero, pure and perfect crystals of the semiconductors are nonconducting, their resistivity approaching to the resistivity of an insulator. They can be made conducting by adding impurities, thermal agitation and lattice defects etc.

Resistivity of a semiconductor depends upon the temperature, and it decreases with the rise in temperature; consequently, a semiconductor crystal becomes conducting even at room temperature.

At room temperature, their resistivity lies in the range 10^2 to 10^9 ohm-cm, and is thus intermediate between the resistivity of good conductor (10^{-8} ohm-cm) and insulator (10^{14} to 10^{22} ohm.cm.).

Electrical resistivity of various material at 20°C in ohm-meter.

Metals	Semiconductors	Insulators
Ag – 1.6×10^{-8}	Ge (pure) – 0.47	glass – 10^{10} – 10^{11}
Cu – 1.7×10^{-8}	Si (pure) – 1953	mica – 7×10^{14}
Al – 2.8×10^{-8}	Fe_3O_4 – 0.01	diamond – 10^{14}
Fe – 10×10^{-8}	In Sb – 2×10^4	
Constantan – 49×10^{-8}	Sn (gray) – 2×10^8	
Nichrome – 100×10^{-8}		

At 20°C resistivity of semiconductors lying between metals and insulators. But at low temperatures, semiconductor behaves as insulator, because resistivity of semiconductor depends strongly on temperature.

Properties :

- They have negative temperature coefficient of resistance means resistance of semiconductor decreases with increase in temperature and vice-versa.
- Their electrical conductivity is very much affected by even a very minute amount of impurity added to it.
- Covalent Bond
- Crystalline Structure

Silicon (${}_{14}Si^{28}$), germanium (${}_{32}Ge^{72}$) and tin (${}_{50}Sn^{118}$) in crystalline form have the same crystal structure and similar electrical properties.

Silicon and germanium are most popular semiconductors, because of the importance of Ge and Si in present day electronics.

There are also a number of compound semiconductors, such as metallic oxides and sulphides which are also of great particles importance.

Ex. GaAs and PbSe and ternary alloys are of very importance in present day electronics.

Elements enclosed by the line are semiconductors

III A	IV A	V A	VI A	VII A
B	C	N	O	F
Al	Si	P	S	Cl
Ga	Ge	As	Se	Br
In	Sn	Sb	Te	I
Tl	Pb	Bi	Po	At

Semiconductor 12th Class Chapter Notes

Padhraic Smyth



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Table of Contents Semiconductor 12th Class Chapter Notes

1. Understanding the eBook Semiconductor 12th Class Chapter Notes
 - The Rise of Digital Reading Semiconductor 12th Class Chapter Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Semiconductor 12th Class Chapter Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Semiconductor 12th Class Chapter Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Semiconductor 12th Class Chapter Notes

- Personalized Recommendations
 - Semiconductor 12th Class Chapter Notes User Reviews and Ratings
 - Semiconductor 12th Class Chapter Notes and Bestseller Lists
5. Accessing Semiconductor 12th Class Chapter Notes Free and Paid eBooks
 - Semiconductor 12th Class Chapter Notes Public Domain eBooks
 - Semiconductor 12th Class Chapter Notes eBook Subscription Services
 - Semiconductor 12th Class Chapter Notes Budget-Friendly Options
 6. Navigating Semiconductor 12th Class Chapter Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Semiconductor 12th Class Chapter Notes Compatibility with Devices
 - Semiconductor 12th Class Chapter Notes Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semiconductor 12th Class Chapter Notes
 - Highlighting and Note-Taking Semiconductor 12th Class Chapter Notes
 - Interactive Elements Semiconductor 12th Class Chapter Notes
 8. Staying Engaged with Semiconductor 12th Class Chapter Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semiconductor 12th Class Chapter Notes
 9. Balancing eBooks and Physical Books Semiconductor 12th Class Chapter Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semiconductor 12th Class Chapter Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Semiconductor 12th Class Chapter Notes
 - Setting Reading Goals Semiconductor 12th Class Chapter Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Semiconductor 12th Class Chapter Notes

- Fact-Checking eBook Content of Semiconductor 12th Class Chapter Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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