

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

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

**RS Peters**



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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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web mar 25 2023 an overload relay is an electrical device used to protect an electric motor from overheating there must be adequate motor safety the electric motor can be operated safely with the help of an overload relay fuse or circuit breaker but this relay provides protection to the motor

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web fuses and electrical protection symbols fuses are devices containing a small piece of special wire that melts when the intensity of the current flowing through it for a certain period of time exceeds a set value thus protecting the rest of the electrical circuit overloads

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web apr 11 2023 they use thermal action and a bi metallic strip to protect from overload conditions and a magnetic sensing coil to protect against overcurrent situations the main advantage that circuit breakers have over fuses is that

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web overload relay is a protective device that is used to protect the motor from overcurrent phase loss current imbalance overload relay can be used with the combination of contactors overload protection is necessary to increase the life of the motor next must read articles the most used 3 basic motor starter with its plc program

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web overload protection is installed in the main control circuit or power line of motor to protect from damage due to mechanical malfunction overload conditions when it is running the effect of an overload is an excessive rise in temperature in the motor windings due to current higher than full load

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web the wiring diagram of an overload relay is shown below and the connections of an overload relay symbol may seem like two opposite question marks otherwise like the s symbol the overload relay working function is discussed below

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web overload protection the current flows in the circuit based on the demand of loads if the amount of current increases and exceeds the rating of the electrical equipment then the system is overloaded the wires or cables may not withstand the higher current the wires get hot and even melt the insulation this leads to fire hazards

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web a fuse is used for protection of any electrical device from overcurrent it has a small wire or metal which melts due to large current opens the circuit blocking the flow of faulty currents the iec ieee ansi provide different representation systems

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web an overload relay olr protects an electric motor against overloads and phase failures thermal and electronic olr definition operation and connections

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web sep 26 2020 q1 is a manual motor started with overcurrent protection my question is what is the meaning of the f like symbol does it represent an edge trigger what is the square after the f like symbol does it represent the coil of the contactor what is the symbol does it represent overcurrent protection

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web apr 15 2022 overload protection circuit for voltage regulator ic in the circuit ic3 7812 as the 12 volts regulator will supply voltage to load through the contact c nc of the relay ry1 in normal the point a will has state is 1 cause the output of ic1 1 is 0 so no current to trigger gate of scr1 thus the ry1 not works

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web electrical iec 60617 bs 3939 symbols representing isolators disconnectors fuses contactors and overloads for usage in drawing electrical circuits

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web overload describes a moderate and gradual rise in the value of current over a relatively long period of time it is caused by excessive amounts of current drawn by a motor which may be as high as six times the rated current this is caused by too much load on a motor systems are protected by

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