

ELECTRONICS

SEMICONDUCTOR

There are a large number of materials which have resistivities lying between those of an insulator and a conductor (See table). Such materials 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) – 2×10^5	
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 ($_{14}\text{Si}^{28}$), germanium ($_{32}\text{Ge}^{72}$) and tin ($_{50}\text{Sn}^{118}$) 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 importance.

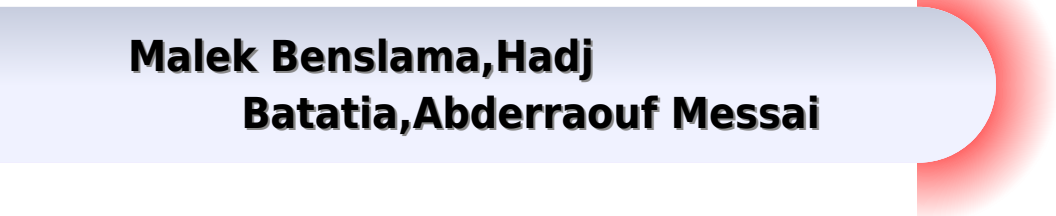
Ex. GaAs and PbSe and ternary alloys are of very importance in present day electronics.

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

Target 12th Electronics Notes

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