

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

12th Electronics Notes

RS Peters



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Newnes Electronics Toolkit Geoff Philips, 1997-07-15 The author has used his thirty years of experience in industry to draw together the basic information that is constantly in demand Facts formulae data and charts are presented to help the engineer when designing developing evaluating fault finding and repairing electronic circuits The result is this handy workmate volume a memory aid tutor and reference source which is recommended to all electronics engineers students and technicians and is best kept within reach at all times Have you ever wished for a concise and comprehensive guide to electronics concepts and rules of thumb Have you ever been unable to source a component or choose between two alternatives for a particular application How much time do you spend searching for basic facts or manufacturer s specifications What you want is the *Newnes Electronics Toolkit* Information on the current divider theorem alongside voltage dividers in the section on uses of a resistor New sections on LEDs fast recovery diodes and sensors and transducers Enhanced audio section including voltage and current gain decibels bandwidth [Complete Guitar Care & Maintenance](#) Jonny Blackwood, 2020-04-05 Everything you need to maintain set up and protect your guitar Cleaning Restringing Setups Adjustments Care Storage Minor Repairs *Complete Guitar Care Maintenance* The Ultimate Owners Guide is the essential care guide for guitar owners everywhere Filled with over 170 pages of step by step instruction 300 images and diagrams and a plethora of exclusively derived specifications and manufacturers recommendations You will have everything you need to maintain any guitar no matter what your experience level Get the low down on instrument cleaning and preservation Improve the performance and sound of your guitar with simple adjustments Take your setup skills to the next level with precision neck adjustments string height adjustments bridge saddle and nut pickup height adjustments intonation and more Do minor repairs fix electronics and other common issues with total confidence Learn about guitar care such as humidity and storage Use the included cut out tool templates to broaden your guitar setup prowess This is a complete reference manual perfect for players collectors and budding professionals alike Written to be simple accessible streamlined and easy to follow Pertains to electric acoustic classical and bass guitars From your friends at blackwoodguitarworks com and the Guitar Setup Pro App Included in the book How to maintain your guitar for peak performance longevity How to clean polish and store the guitar for long term protection How to restring the guitar properly How to set up electric acoustic bass guitars How to adjust neck relief bow for optimum playability How to adjust string height for your playing style and guitar type How to file nut slots adjust pickup height and set the intonation accurately How to adjust Fender style tremolo s Gibson hard tails Floyd Rose and other floating bridge types How to adjust the saddle on your acoustic steel string or nylon string guitar How to solder and repair electronics How to replace jacks switches and pickups Manufacturer s setup specs from Fender Gibson Ibanez Jackson Gretsch and others Exclusive setup specifications from the author s best playing guitars basses Cut out templates for radius gauges under string radius gauges an action ruler An extensive troubleshooting section A library of common wiring diagrams

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