

* Magnetic properties of solids::

- Saturation, and effect of temperature on magnetic field of a material:

The magnetism produced by electrons within an atom can arise from two motions. First, each electron orbiting the nucleus generates a small magnetic field; Secondly each electron possesses a spin that also gives rise to a magnetic field. The net magnetic field created by the electrons within an atom is due to the combined field created by their orbital and spin motions. Since there are a number of electrons in an atom, their currents or spins may be so oriented or aligned as to cancel the magnetic effects mutually or