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Superconductivity is a set of physical properties observed in certain materials where electrical resistance vanishes and magnetic flux fields are expelled from the material. Any material exhibiting these properties is a superconductor.Unlike an ordinary metallic conductor, whose resistance decreases gradually as its temperature is lowered even down to near absolute zero, a superconductor has a ...

Superconductivity - Wikipedia

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A superconductor is a metal that acts strangely when cooled down to a certain temperature. When these materials reach their critical temperature they suddenly become perfect conductors. A semiconductor, on the other hand, is a material that has a conductivity somewhere between that of a conductor and an insulator.