

# Superconductivity and Superconductors

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## Superconductivity and Superconductors

### ABSTRACT

Superconductivity allows current to pass through a material with no resistive losses at near absolute zero temperatures. It also exhibits the Meissner effect which causes the superconducting material to repel magnetic fields. The application of this technology has been extremely limited due to the prohibitive costs of using Helium to cool the material to the critical temperatures.

Recently, however, new ceramic materials were discovered which exhibit superconductive properties at higher temperatures which can be reached using cheaper [liquid Nitrogen cooling](#). Applications have immediately expanded and are expected to become amazing in the near future as scientists search for a room temperature superconductor.

## ORIGINS

Superconductivity is the passing of electricity through conductors with no loss of power (Graham 17).

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