

Question 26 (3 marks)

Some materials become superconductors when cooled to extremely low temperatures. 3
Identify THREE properties of superconductors.

1. At these extremely cool temperatures when the materials become superconductors, the electrical resistance drops to zero.
2. At their superconducting state their internal magnetic field is zero. 2. If ~~external~~ a magnetic field is applied then the material, at its superconducting state, can cancel out its internal magnetic field. (Meissner effect)
3. Hard, brittle