

Investigation and Analysis of Superconductivity and Diamagnetic Properties in The Structure of Various Types of (Nanowires)

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- **Abstract:**

- Silicon nanowires are one of the best examples of semiconductor nanostructures that can be fabricated as single crystals with diameters as small as 9 to 10 nm.

- **Keywords:** Nanostructure , nanomaterials , Nanowires , Silicon nanowires, Nanoelectronic

Introduction •

Electromagnetic nature of nanoparticles in magnetic materials, its constituent molecules and atoms have electromagnetic properties. In simpler terms, elements such as iron, cobalt, nickel and their alloys that are attracted by a magnet are called magnetic materials. The classification of electromagnetic materials is based on magnetic susceptibility (the ability of a material to become magnetized). Based on this, materials are classified into three groups: ferromagnetic,



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