

PARAMAGNETISM

Meaning: Paramagnetism is the property of materials with unpaired electrons that causes them to be attracted to external magnetic fields.

1. Paramagnetism occurs in materials that have unpaired electrons, allowing them to be attracted to magnetic fields.
2. The study of paramagnetism is crucial for understanding the magnetic properties of certain metals and alloys.
3. In the presence of a magnetic field, paramagnetic materials align their magnetic moments, albeit weakly.
4. Scientists often contrast paramagnetism with ferromagnetism to explain different magnetic behaviors in materials.
5. Research into paramagnetism has implications for various applications, including magnetic resonance imaging and data storage.

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