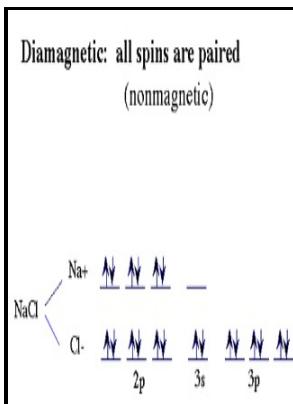


Electron paramagnetism

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Description: -

- Combinatorial analysis -- Congresses.
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-Electron paramagnetism
Notes: Includes bibliographies.
This edition was published in 1968



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Tags: #Paramagnetism #in #Solids

Electron Paramagnetic Resonance

Diamagnetic levitationA small ~6mm piece of pyrolytic graphite a material similar to graphite levitating over a permanent gold magnet array 5mm cubes on a piece of steel . In order to generate field strengths appropriate for W-band and higher frequency operation superconducting magnets are employed.

Transition Metals

EPR spectroscopy is particularly useful for studying metal complexes or organic radicals.

Paramagnetism And Diamagnetism

Since paramagnetism depends upon magnetic moments of atoms or ions, the origin of these magnetic moments is important. Each atom has one non-interacting unpaired electron .

Paramagnetism

If there is sufficient energy exchange between neighbouring dipoles they will interact, and may spontaneously align or anti-align and form magnetic domains, resulting in permanent magnets or , respectively. A simulation of the observed EPR spectrum is shown at the right and agrees with the 12-line prediction and the expected line intensities. For example, the color of chromate, dichromate, and permanganate ions is due to LMCT transitions.

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