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Crystal field theory describes the
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electron orbital states, usually d or f orbitals, due to a static electric field produced by a surrounding charge distribution. This theory has been used to describe various spectroscopies of transition metal coordination complexes, in particular optical spectra. CFT

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successfully accounts for some magnetic properties, colors, hydration enthalpies, and spinel structures of transition metal complexes, but it does not attempt to describ

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Crystal field theory - Wikipedia
Crystal field theory (CFT) describes the breaking of degeneracies of electron orbital states, usually d or f orbitals, due to a static electric field produced by a surrounding charge distribution (anion neighbors).

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This theory has been used to describe various spectroscopies of transition metal coordination complexes, in particular optical spectra (colors).

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1929 Hans Bethe - Crystal Field Theory (CFT) • Developed to interpret color, spectra, magnetism in crystals
1932 J. H. Van Vleck - CFT of Transition Metal

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Complexes • Champions CFT to interpret properties of transition metal complexes • Show unity of CFT, VB, and MO approaches
1932 L. Pauling and J. C. Slater - VB theory • Apply hybrid orbital concepts to interpret properties of transition metal complexes •

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Becomes ...

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1-c. History of the Crystal Field Approach. The basic idea of the crystal field theory, namely, that the metal ion in the complexes is

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subjected to an electric field originating from the ligands, is due to Becquerel 8(1929). The same year saw this proposal formulated into an exact theory by Bethe 6.

Carl J. Ballhausen : History of the

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Crystal Field Approach ...

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Hans Bethe - Crystal Field Theory

(CFT) • Developed to interpret color, spectra, magnetism in

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Complexes • Champions CFT to

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interpret properties of transition metal complexes • Show unity of CFT, VB, and MO approaches
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scientific representation of how
metals behave when dissolved in

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water to form a special type of chemical called a complex. This model may be used to predict the colors of certain metal containing chemicals when dissolved in water, as well as their reactions when placed near a magnet. It may also be use to predict the shape of the

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chemicals.

Crystal field theory - Simple English Wikipedia, the free ...

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Crystal field theory is a quantum mechanical theory for the

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explanation of magnetic properties and colors of transition metal complexes. The theory was founded in 1929 by Hans Bethe. In this paper Bethe was one of the first to give point group symmetry arguments to solve a quantum mechanical problem

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Assumptions of Crystal field theory: The interaction between the metal ion and the ligand is purely electrostatic. Crystal field

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concepts to interpret properties of transition metal

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Crystal field theory (CFT)

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describes the breaking of orbital degeneracy in transition metal complexes due to the presence of ligands. CFT qualitatively describes the strength of the metal-ligand bonds. Based on the strength of the metal-ligand bonds, the energy of the system is

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altered.

Crystal Field Theory - Chemistry LibreTexts

History. Ligand field theory resulted from combining the principles laid out in molecular

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orbital theory and crystal field theory, which describes the loss of degeneracy of metal d orbitals in transition metal complexes. John Stanley Griffith and Leslie Orgel championed ligand field theory as a more accurate description of such complexes, although the theory

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originated in the 1930s with the work on magnetism of John Hasbrouck Van Vleck.

Ligand field theory - Wikipedia
Crystal field theory was established in 1929 treats the

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interaction of metal ion and ligand as a purely electrostatic phenomenon where the ligands are considered as point charges in the vicinity of the atomic orbitals of the central atom.

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Crystal Field Theory (CFT) - Detailed Explanation with ...

Therefore, scientists proposed the crystal field theory. According to this theory, the metal-ligand bond acts as an ionic bond arising purely from the electrostatic interactions between the metal ions and

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ligands. This theory takes anions as point charges and neutral molecules as dipoles.

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Attributed mainly to the works of

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the U.S. physicist J.H. Van Vleck, the ligand field theory evolved from the earlier crystal field theory, developed for crystalline solids by the U.S. physicist Hans Albrecht Bethe.

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Ligand field theory | chemistry | Britannica

The crystal field theory is based on an ionic description, so it considers the ligands as negative point charges. It's a very simplified model, whereas as the ligand field theory considers covalent, as well

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as ionic aspects of coordination.

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founded in 1929 by Hans Bethe. In this paper Bethe was one of the first to give point group symmetry arguments to solve a quantum mechanical problem and to apply degenerate perturbation theory.

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Crystal field theory - encyclopedia article - Citizendium

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