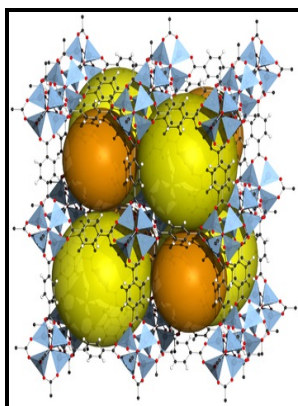


Introduction to transition-metal chemistry: ligand-field theory

Methuen - 4.1.1: Introduction to Crystal Field Theory (Octahedral complexes)



Description: -

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Socialism -- Russia -- History -- Sources.

Gruppa Osvobozhdenie truda -- History -- Sources.

Ligand field theory, introduction to transition-metal chemistry: ligand-field theory

- introduction to transition-metal chemistry: ligand-field theory

Notes: Includes bibliographical references.

This edition was published in 1966



Filesize: 14.47 MB

Tags: #Ligand #Field #Theory

Ligand

The ligand field theory is a firm background to foresee the magnetic properties of metallic complexes ML_nM , transition metal ion; L, molecule or ligand. Ligand-field theory enables the 3 d, 4 s, and 4 p orbitals on the metal to overlap with orbitals on the ligand to form the octahedral covalent bond skeleton that holds this complex together. Boards have minor rubbing and mild bumping to corners.

INTRODUCTION TO LIGAND FIELD THEORY

Many of the elements are technologically important: , , and , for example, are used structurally and in electrical technology. Conversely, if Δ_o is greater, a low-spin configuration forms. Frank Neese, in , 2013 Concluding Remarks This chapter has provided an introduction to LFT and has highlighted its role as an interpretation aid for a wide range of properties of transition metal complexes.

Ligand Field Theory

Conversely, the e g orbitals are higher in energy.

INTRODUCTION TO LIGAND FIELD THEORY

The model incorporated all of the features of the ligand field theory developing a synergistic bonding in which electrons moved from the ligand-to-the-metal in a σ -sense and in the opposite direction in the π -bonding. A didactic review by Al Cotton from 1964 provided an excellent overview of the successes of ligand field theory. This gives the value of Δ_o directly, but only the case of a d 1 ion is this simple.

Related Books

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