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Crystal field theory provides a link between the visible region spectra and thermodynamic properties of numerous rock-forming minerals and gems that contain the elements iron, titanium, vanadium, chromium, manganese, cobalt, nickel or copper.

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### Crystal Field Theory by ...

In order to apply crystal field theory to geologic processes involving transition metal ions, it is necessary to have crystal chemical information and thermodynamic data for these cations in mineral structures.

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## **Mineralogical Applications of Crystal Field Theory ...**

Oxford April, 1969 Roger G. Burns  
Preface to the second edition When  
the first edition of Mineralogical  
Applications of Crystal Field Theory was  
written during 1968-9, it broke new  
ground by describing results and

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suggesting applications of the limited spectroscopic and crystal chemical data then available for transition metal-bearing minerals.

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interested in the applications of crystal field theory could learn enough from this

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book to be able to use the theory. For applications to mineralogy the most important results of crystal field theory are its explanation of color and

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application of crystal-field theory to properties of the mantle. Chapter 10

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features the use of molecular-orbital theory in the interpretation of the sulphide mineralogy of transition-metal ions, an area of research that is likely to prove more challenging than the silicates.

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Mineralogical Applications of Crystal Field Theory - NASA/ADS The new edition of this landmark volume takes into account the vast amount of new spectral data on minerals, and describes a variety of applications of crystal field theory to the earth and planetary sciences.

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Subsequently, crystal field theory has been applied to several geochemical, geophysical and mineralogical problems involving surfaces and interiors of the Earth and other terrestrial planets (Burns, 1982,1985a,b; 1989a).t Many of these topics are discussed in this second

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edition. 1.2 Scope of crystal field theory  
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**Roger G. Burns, Mineralogical Applications of Crystal ...**

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Crystal field theory gives a survey of the effects of electric fields of definite symmetries on an atom in a crystal structure. – – A direct physical confirmation should be obtainable by analysis of the spectra of crystals. H. A. Bethe, *Annalen der Physik*, 3, 206 (1929)

Introduction



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**Outline of crystal field theory**

**(Chapter 2 ...**

A great deal has been written about the crystal-field model for first-row transition metal cations in the distorted octahedra of olivines. – – Its predictions are useful for – – rationalizing the intra- and inter-crystalline cation partitioning. G. E. Brown Jr, Rev. Mineral, 5 (2nd edn), 333

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(1982)

**Crystal chemistry of transition  
metal-bearing minerals ...**

Crystal field theory provides a link between the visible region spectra and thermodynamic properties of numerous rock-forming minerals and gems that contain the elements iron, titanium,

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vanadium, chromium, manganese,  
cobalt, nickel or copper.

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## Mineralogical Applications Of Crystal Field Theory

The whole field will be covered systematically from theory to techniques to applications. Preface; 1. Introduction; 2. Outline of crystal field theory; 3. Energy level diagrams and crystal field spectra of transition metal ions; 4. Measurements of absorption spectra of minerals; 5. Crystal field spectra of transition metal ions in minerals; 6.



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September 1993

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