

Mineralogical Applications Of Crystal Field Theory

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Mineralogical Applications Of Crystal Field

The second edition of this classic book provides an updated look at crystal field theory - one of the simplest models of chemical bonding - and its applications. 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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Mineralogical Applications of Crystal Field Theory (2nd ed.)

ISBN: 0521430771 9780521430777 9780511524899
0511524897: OCLC Number: 26974845: Description: xxiii, 551 pages : illustrations ; 24 cm. Contents: Outline of crystal field theory --Energy level diagrams and crystal field spectra of transition metal ions --Measurements of absorption spectra of minerals --Crystal field spectra of transition metal ions in minerals --Crystal chemistry of transition ...

Mineralogical applications of crystal field theory (Book ...

interested in the applications of crystal field theory could learn enough from this 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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Feldspars. Mineralogical applications of crystal field theory. BOOK REVIEWS 287 and classification; it includes an index of plates and acknowledgments to the owners of figured material. The significant contribution of this work lies in the execution of the splendid prints based on Claus Caspari's paintings of a quite remarkable selection of fine mineral specimens.

Feldspars. Mineralogical applications of crystal field theory.

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

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planetary sciences.

Mineralogical Applications of Crystal Field Theory - NASA/ADS

Mineralogical Applications of Crystal Field Theory, by Roger G. Burns, pp. 575. ISBN 0521430771. Cambridge, UK: Cambridge University Press, September 1993.

Mineralogical Applications of Crystal Field Theory

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 edition. 1.2 Scope of crystal field theory It may, perhaps, be appropriate to justify the name crystal field theory in the book title, rather than ligand field theory or molecular orbital theory which appear to be more ...

Roger G. Burns, Mineralogical Applications of Crystal ...

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

Outline of crystal field theory (Chapter 2 ...

Several newer applications of the spectral and crystal chemical data are described, including interpretations of remote-sensed reflectance spectra used to identify transition metal-bearing minerals on surfaces of planets. This topic alone warrants the inclusion of a new chapter in the second edition.

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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.

Mineralogical Applctns Crystal 2ed (Cambridge Topics in

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

Crystal field theory - Wikipedia

Mineralogical Applications of Crystal Field Theory (Cambridge Earth Science Series) by Burns, Roger G.. Cambridge University Press. 1970.

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