

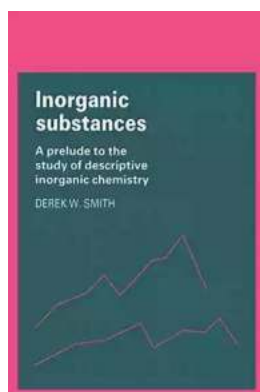
Prelude To The Study Of Descriptive Inorganic Chemistry Cambridge Texts In

The field of inorganic chemistry is a vast and fascinating branch of chemistry that explores the properties and behavior of inorganic compounds. One of the foundational resources for studying this field is the book "Prelude To The Study Of Descriptive Inorganic Chemistry" from the Cambridge Texts In series.

Understanding Inorganic Chemistry

Inorganic compounds are substances that do not contain carbon-hydrogen bonds, unlike organic compounds. They are essential for various industrial applications and play a vital role in many biological processes. Studying inorganic chemistry helps us comprehend the chemical behavior and characteristics of elements and compounds beyond the realm of organic chemistry.

The book "Prelude To The Study Of Descriptive Inorganic Chemistry" serves as an introductory text to this intriguing field. It covers the fundamental topics necessary for understanding inorganic compounds, including the periodic table, atomic structure, chemical bonding, coordination compounds, and solid-state chemistry.



Inorganic Substances: A Prelude to the Study of Descriptive Inorganic Chemistry (Cambridge Texts in Chemistry and Biochemistry)

by Derek W. Smith (1st Edition, Kindle Edition)

★★★★☆ 4.7 out of 5

Language : English

File size : 49785 KB

Screen Reader : Supported

Print length : 412 pages



An Overview of the Book

This Cambridge Texts In book is a comprehensive guide that introduces the readers to the essentials of descriptive inorganic chemistry. It is suitable for beginners and intermediate learners who wish to delve deeper into the subject.

The book starts with an to the periodic table and its significance in classifying elements based on their properties. It then proceeds to discuss atomic structure, including the arrangement of electrons in atoms and their influence on bonding.

Chemical bonding is a crucial aspect of inorganic chemistry, and this book explores the different types of bonds that exist between atoms, such as ionic, covalent, and metallic bonds. It also delves into the concept of molecular orbitals and their contribution to bonding.

A major focus of the book is coordination compounds, which are complexes formed between a central metal ion and surrounding ligands. The authors provide an in-depth understanding of coordination chemistry, including concepts like coordination number, isomerism, and stability constants.

The study of solid-state chemistry is another highlight of this book. It covers crystal structures, lattice energies, and various types of solids, including crystalline and amorphous solids. The authors explain the importance of solid-state chemistry in industries like materials science and electronics.

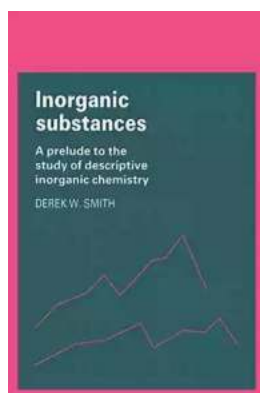
The Importance of Descriptive Inorganic Chemistry

Descriptive inorganic chemistry is essential for understanding the behavior and applications of inorganic compounds. It encompasses the study of various compounds, including minerals, metals, alloys, catalysts, and coordination complexes.

By studying descriptive inorganic chemistry, we gain insights into the properties and reactions of different elements and compounds. This knowledge is valuable for developing new materials, elucidating biochemical processes, and advancing technologies in fields such as energy storage, environmental science, and pharmaceuticals.

The book "Prelude To The Study Of Descriptive Inorganic Chemistry" from the Cambridge Texts In series is an excellent resource for anyone interested in delving into the captivating world of inorganic chemistry. It provides a solid foundation for understanding the fundamental concepts and principles that govern the behavior of inorganic compounds. Through its comprehensive coverage, this book equips readers with the knowledge necessary to explore further aspects of this exciting field.

So, if you are ready to embark on a journey of discovery in inorganic chemistry, grab a copy of "Prelude To The Study Of Descriptive Inorganic Chemistry" now and take the first step towards expanding your chemical horizons!



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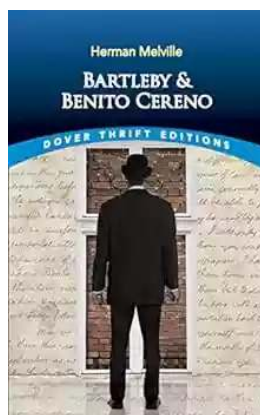
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X-Ray for textbooks : Enabled



Inorganic Substances is complementary in its approach to conventional inorganic chemistry textbooks. Written with the undergraduate in mind, it gives an to descriptive inorganic chemistry, a systematic survey of the chemistry of the elements according to the Periodic Classification. In this way, the reader acquires a firm grasp of the principles which underlie which inorganic substances can be made, their preparations, structures, chemical reactions and physical properties. The book presents theory as a background to the facts of inorganic chemistry, rather than as an end in itself. It does not concentrate on structural detail or reaction mechanisms but stresses the interplay between thermodynamic and kinetic considerations in understanding stability. The ways in which the various theories of structure and bonding are related are thoroughly dealt with throughout. The approach of this book makes it a useful companion to any intermediate inorganic chemistry course. It should also be useful to other science students, especially earth and material scientists who need a good grounding in modern inorganic chemistry.



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