

# With Applications In Organometallics Catalysis Materials And Medicine In Volumes



## Handbook Of Boron Science: With Applications In Organometallics, Catalysis, Materials And Medicine (In 4 Volumes) by Gil Carlson

★★★★☆ 4.4 out of 5

Language : English

File size : 59279 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Print length : 1453 pages

Screen Reader : Supported



Organometallic chemistry is the study of compounds that contain metal-carbon bonds. These compounds are of great importance in a wide variety of applications, including catalysis, materials science, and medicine.

### Catalysis

Organometallic compounds are widely used as catalysts in a variety of industrial processes. For example, Ziegler-Natta catalysts are used in the production of polyethylene, and Wilkinson's catalyst is used in the production of hydrogen.

### Materials Science

Organometallic compounds are also used in the synthesis of a variety of materials, including semiconductors, ceramics, and polymers. For example,

organometallic precursors are used in the production of thin films for solar cells and other electronic devices.

## Medicine

Organometallic compounds are also used in the development of new drugs and treatments for a variety of diseases. For example, cisplatin is a platinum-based drug that is used to treat a variety of cancers.

## Volumes

This book is divided into three volumes, each of which covers a different aspect of organometallic chemistry. Volume 1 covers the basics of organometallic chemistry, including the synthesis, structure, and reactivity of organometallic compounds. Volume 2 covers the applications of organometallic compounds in catalysis, and Volume 3 covers the applications of organometallic compounds in materials science and medicine.

This book provides a comprehensive overview of the applications of organometallic chemistry in various fields, including catalysis, materials science, and medicine. It is a valuable resource for both students and researchers in these fields.



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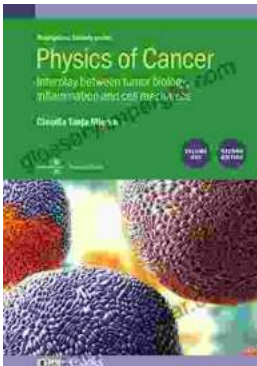
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