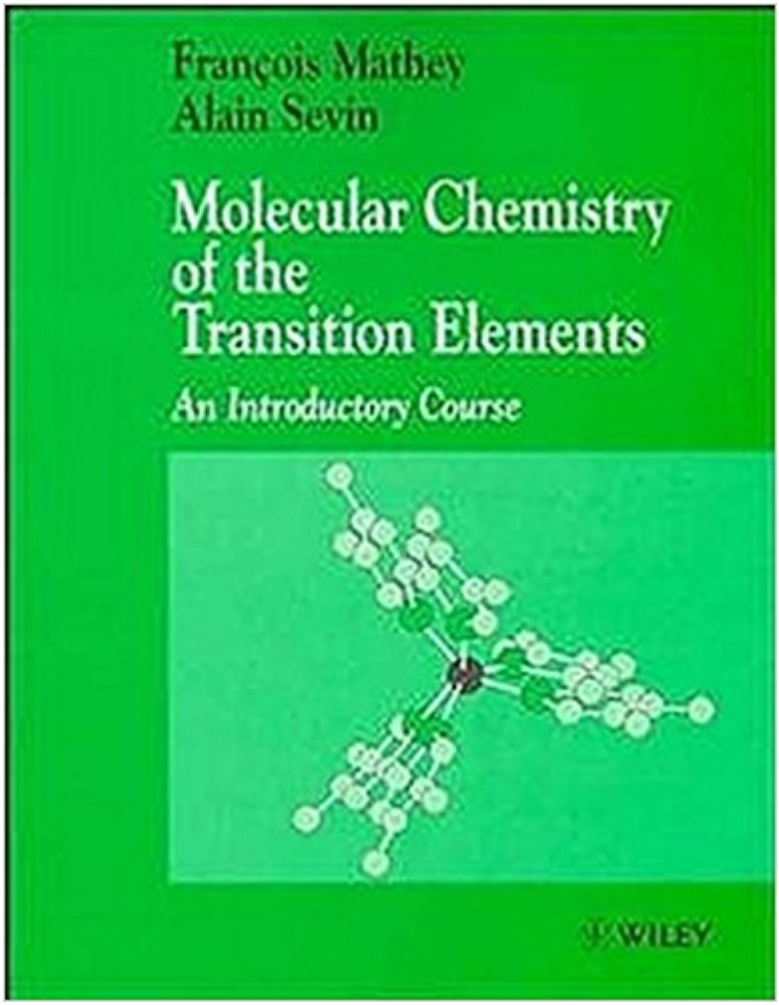
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Molecular Chemistry Of The Transition Elements: An Introductory Course



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Using a systematic and theoretical approach, this outstanding textbook offers a succinct introduction to the underlying principles of organometallic chemistry--with a strong emphasis on reactions mechanisms. It links theory with the chemical properties of the compounds, enabling students to classify the variety of compounds and to understand the basic reaction mechanisms of diverse classes of compounds. Chapters with selected applications help students to transfer the theoretical knowledge to real life chemistry. Contains numerous examples.

Book Information

Series: Inorganic Chemistry: A Textbook Series (Book 10)

Paperback: 242 pages

Publisher: Wiley; 1 edition (November 7, 1996)

Language: English

ISBN-10: 0471956872

ISBN-13: 978-0471956877

Product Dimensions: 7.5 x 0.6 x 9.9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

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Molecular Chemistry of the Transition Elements An Introductory Course FranÃƒÂ§ois Mathey Ecole Polytechnique, Palaiseau, France and Alain Sevin UniversitÃƒÂ© Paris VI, France Molecular Chemistry of the Transition Elements combines a description of the experimental facts with theory,using the frontier orbital approach. After a brief history of organometallic chemistry and an

introduction to the fundamental concepts of transition metal chemistry, the authors present the key groups of this field: hydrides, carbonyls, M-C bonds, M-M bonds, carbene and carbyne complexes, -complexes and phosphorus complexes. Later chapters survey the applications of transition metals in both organic synthesis and catalysis. Molecular Chemistry of the Transition Elements presents: * Integrated experimental and theoretical approaches * A detailed description of the major compounds of the field * The comprehensive theory of metal-metal single and multiple bonds * Applications of transition metals * An in-depth treatment of phosphorus ligands and their complexes This new text is the necessary tool for students of inorganic, organic, organometallic and transition metal chemistry.

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