

# Essentials of Coordination Chemistry: A Simplified Approach with 3D Visuals

By Vasishtha Bhatt

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## Essentials of Coordination Chemistry: A Simplified Approach with 3D Visuals By Vasishtha Bhatt

*Essentials of Coordination Chemistry: A Simplified Approach with 3D Visuals* provides an accessible overview of this key, foundational topic in inorganic chemistry. Thoroughly illustrated within the book and supplemented by online 3D images and videos in full color, this valuable resource covers basic fundamentals before exploring more advanced topics of interest.

The work begins with an introduction to the structure, properties, and syntheses of ligands with metal centers, before discussing the variety of isomerism exhibited by coordination compounds, such as structural, geometrical and optical isomerism. As thermodynamics and kinetics provide a gateway to synthesis and reactivity of coordination compounds, the book then describes the determination of stability constants and composition of complexes. Building upon those principles, the resource then explains a wide variety of nucleophilic substitution reactions exhibited by both octahedral and square planar complexes. Finally, the book discusses metal carbonyls and nitrosyls, special classes of compounds that can stabilize zero or even negative formal oxidation states of metal ions. Highlighting preparations, properties, and structures, the text explores the unique type of Metal-Ligand bonding which enable many interesting applications of these compounds.

Thoughtfully organized for academic use, *Essentials of Coordination Chemistry: A Simplified Approach with 3D Visuals* encourages interactive learning. Advanced undergraduate and graduate students, as well as researchers requiring a full overview and visual understanding of coordination chemistry, will find this book invaluable.

- Includes valuable visual content through 3D images and videos in full color, available online
- Provides a valuable introduction to the study of organic and inorganic ligands with metal centers
- Discusses advanced topics including metal carbonyls and nitrosyls

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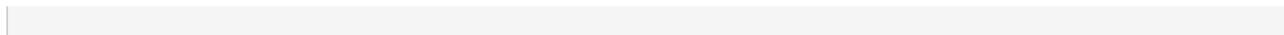
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### Editorial Review

From the Back Cover

*Essentials of Coordination Chemistry: A Simplified Approach with 3D Visuals* provides an accessible overview of some key, foundational topics in inorganic chemistry. Thoroughly illustrated and supplemented by online 3D images and videos in full color, this valuable resource covers the basic topics that are essential to learn before exploring more advanced topics of interest.

The work begins with an introduction to the basic concepts of coordination chemistry, symmetry, and point groups before discussing the variety of isomerism exhibited by coordination compounds, such as structural, geometrical, and optical isomerism. As thermodynamics and kinetics provide a gateway to the synthesis and reactivity of coordination compounds, the book then describes the determination of stability constants and the composition of complexes. Building upon those principles, the resource then explains a wide variety of nucleophilic substitution reactions exhibited by both octahedral and square planar complexes. Finally, it discusses metal carbonyls and nitrosyls, special classes of organometallic complexes that can stabilize zero or even negative formal oxidation states of metal ions. Highlighting preparations, properties, and structures, the text explores the unique type of metal-ligand bonding, which enables many interesting applications of these compounds.

Thoughtfully organized for academic use, *Essentials of Coordination Chemistry: A Simplified Approach with 3D Visuals* encourages interactive learning. Advanced undergraduate and graduate students, as well as researchers requiring a full overview and visual understanding of coordination chemistry, will find this book invaluable.

Key features

- Includes valuable visual content through 3D images and videos in full color, available online
- Includes advances from recent research work
- Provides an introduction to the study of organic and inorganic ligands with metal centers
- Presents treatment of advanced topics, including metal carbonyls and nitrosyls

About the Author

Dr. Vasishta Bhatt has two decades of teaching / research experience with individuals of different categories including undergraduate, postgraduate, researchers, college and university teachers, and academic administrators. He has taught a wide variety of topics in chemistry including fundamentals of organic, inorganic, and physical-analytical chemistry to about 10,000 learners to date. A constant endeavor to improvise teaching methods led him to supplement chalk and talk method with the four-quadrant self learning modules via the anywhere-anytime mode of education. His books contain 2D and 3D images as well as anaglyph / color-coded 3D movies. The content in his books are improved and simplified subsequent to classroom interactions with students.

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