



# d- and f-Block Chemistry Author: Chris J

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## About this book

With an emphasis on co-ordination compounds, d- and f-Block Chemistry aims to provide a comprehensive overview of the underlying chemistry of the d- and f-block metals. It briefly describes the origin of the elements, considering the factors underlying their chemical properties. The book describes aspects of thermodynamics and spectroscopy, which underpin studies of the chemistry of the d- and f-blocks to illustrate particular points and study questions allow students to apply the principles they have learned. The text assumes a basic knowledge of symmetry, atomic orbitals and crystal field potentials. A familiarity with the qualitative use of the molecular orbital approach to the understanding of group theory is not essential. The material is aimed at first and second year students providing a basis for more advanced studies of the reactions, electronic structures, and properties of transition metal complexes. Additional material is available on the website at [www.rsc.org/tct](http://www.rsc.org/tct) Ideal for students, Tutorial Chemistry Texts is a major series consisting of short, single topic books covering fundamental areas of chemistry taught in undergraduate science courses. Each book covers the principles underlying a given subject, embodying an independent-learning philosophy.

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