



The f Elements (Oxford Chemistry Primers)

Nikolas Kaltsoyannis, Peter Scott

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The lanthanides and actinides (the f elements) are rarely studied in detail by chemistry undergraduates. More often they appear as an afterthought in bonding, spectroscopy, magnetism, coordination chemistry, and organometallics courses. This is largely because of a lack of an accessible text treating the chemistry of these elements in one cover. Moreover, the placement of lanthanides and actinides in the closing pages of standard inorganic chemistry text books serves to marginalise these elements further. *The f elements* has therefore been written to fill a gap in the undergraduate chemistry textbook market. It covers much of the fundamental chemistry of the lanthanide and actinide elements, including coordination chemistry, solid state compounds, organometallic chemistry, electronic spectroscopy, and magnetism. Many comparisons are made between the chemistry of the lanthanides and actinides and that of the transition elements, which is generally much more familiar to undergraduate chemistry students. The book uses the chemistry of the f elements as a vehicle for the communication of several important chemical concepts that are not usually discussed in detail in undergraduate courses, for example the chemical consequences of relativity and the lanthanide and actinide contractions. Many important modern applications of f element chemistry, *e.g.* the use of actinides in nuclear power generation and of the lanthanides in magnetic resonance imaging and catalytic converters in motor vehicle exhausts, are also discussed in depth.

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