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simplified to coach students in how to achieve a similar style in their own work. Catherine E. Housecroft is Professor of Chemistry at the University of Basel, Switzerland. She is the author of a number of textbooks and has had teaching experience in the UK, Switzerland, South Africa and the USA. She has published around 500 research papers and reviews, and her current research interests include aspects of coordination chemistry associated with solar energy conversion, solid state lighting, water oxidation, porous coordination polymers and networks and hierarchical assemblies.

Inorganic Chemistry "Catherine E. Housecroft and Alan G. Sharpe" This book has established itself as a leading textbook in the subject by offering a fresh and exciting approach to the teaching of modern inorganic chemistry. It gives a

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end-of-chapter problems reinforce learning and develop subject knowledge and skills. Definitions boxes and end-of-chapter checklists provide excellent revision aids, while further reading suggestions, from topical articles to recent literature papers, will encourage students to explore topics in more depth. New to this edition Many more self-study exercises have been introduced throughout the book with the aim of making stronger connections between descriptive chemistry and underlying principles. Additional 'overview problems' have been added to the end-of-chapter problem sets. The descriptive chemistry has been updated, with many new results from the literature being included. Chapter 4 Bonding in polyatomic molecules, has been rewritten with greater emphasis on the use of group theory for the derivation of ligand group orbitals and orbital symmetry labels.

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There is more coverage of supercritical fluids and 'green' chemistry. The new full-colour text design enhances the presentation of the many molecular structures and 3-D images. Supporting this edition Companion website featuring multiple-choice questions and rotatable 3-D molecular structures, available at "[www.reasoned.co.uk/housecroft](http://www.reasoned.co.uk/housecroft)," For full information, including details of lecturer material, see the Contents list inside the book. A Solutions Manual, written by Catherine E. Housecroft, with detailed solutions to all end-of-chapter problems within the text is available for purchase separately ISBN 0131 39926 8. "Catherine E. Housecroft" is Professor of Chemistry at the University of Basel, Switzerland. She is the author of a number of textbooks and has extensive teaching experience in the UK, Switzerland, South Africa and the USA. "Alan G. Sharpe" is a

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Fellow of Jesus College, University of Cambridge, UK and has had many years of experience teaching inorganic chemistry to undergraduates

This manual contains Catherine Housecroft's detailed worked solutions to all the end of chapter problems within Inorganic Chemistry. It provides fully worked answers to all non-descriptive problems; bullet-point essay plans; general notes of further explanation of particular topics and tips on completing problems; cross-references to main text and to other relevant problems; margin notes for guidance and graphs, structures and diagrams. It includes Periodic table and Table of Physical Constants for reference. This manual should be a useful tool in helping students to grasp problem-solving skills and to both lecturers and students who are using the main Inorganic

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Chemistry provides a robust coverage of the different branches of chemistry - with unique depth in organic chemistry in an introductory text - helping students to develop a solid understanding of chemical principles, how they interconnect and how they can be applied to our lives. "Covers Physical Chemistry in an accessible format for first years...good for covering the gap between varied levels of knowledge from different schools' curricula and the much more demanding University courses." - Dr Ritu Katakya, DEPT OF CHEMISTRY, UNIVERSITY OF DURHAM

This book addresses the chemistry of the

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second and third row d-block metals, assuming a knowledge of the chemistry of the first row metals. Chapter 1 looks at the metals and summarizes occurrence, physical properties and uses. Chapter 2 considers periodic trends in properties. Chapter 3 considers aqueous solution chemistry, species present (with comparisons of the first row metal ions) and redox properties. Chapter 4 surveys structure: the range of coordination numbers shown by second and third row metals is often a topic for discussion in University courses. Chapter 5 looks at electronic spectra and magnetic properties, making comparisons with the first row the main objective of the chapter. Detailed mathematical treatments are not given. Chapter 6 considers metal-metal bonding, and the classes of compound that contain triple and quadruple bonds; the role of bridging ligands is introduced. Chapter 7

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looks at selected clusters with a pi donor ligands (e.g. metal halo species) in which metal-metal bonding is important.

Chapter 8 introduces the area of polyoxometallates, closing with a short discussion of the wide range of applications. The book contains many references to encourage wider reading by the student; in addition to textbooks of relevance, the author has included many recent literature citations, and a section called "Metals in Action" which gives citations which show the heavier metals at work in, for example, catalytic converters and molecular wires."

The Student Solutions Manual to accompany Atkins' Physical Chemistry 11th Edition provides full worked solutions to the "a" exercises, and the odd-numbered discussion questions and problems presented in the parent book.

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The manual is intended for students and provides helpful comments and friendly advice to aid understanding.

This Highly Readable Text Provides The Essentials Of Inorganic Chemistry At A Level That Is Neither Too High (For Novice Students) Nor Too Low (For Advanced Students). It Has Been Praised For Its Coverage Of Theoretical Inorganic Chemistry. It Discusses Molecular Symmetry Earlier Than Other Texts And Builds On This Foundation In Later Chapters. Plenty Of Supporting Book References Encourage Instructors And Students To Further Explore Topics Of Interest.

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*Page 15/16*

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