

## Pearson 1292134143

# Pearson Inorganic Chemistry, 5th Edition by Housecroft & Sharpe

Instruction Manual

## 1. INTRODUCTION

This manual provides guidance for the 5th edition of *Inorganic Chemistry* by Catherine E. Housecroft and Alan G. Sharpe, published by Pearson. This textbook serves as a comprehensive introduction to the physical-inorganic principles of chemistry, designed to build a strong foundation for students.

It covers descriptive chemistry of elements, the role of inorganic chemistry in daily life, molecular symmetry, and bonding in polyatomic molecules. The pedagogical approach aims to facilitate understanding through clear explanations and visual aids.

## 2. KEY FEATURES

The 5th edition of *Inorganic Chemistry* incorporates several features to enhance the learning experience:

- **Updated Content:** Includes the most recent advances in inorganic chemistry, an extended periodic table of elements, and updated chapters covering new 'super-heavy' elements.
- **Visual Learning:** Features striking visuals, including three-dimensional molecular and protein structures, to bring complex concepts to life.
- **Thematic Sections:** Contains boxed sections that focus on the relevance of inorganic chemistry in biology, medicine, environmental science, and various applications, alongside theoretical discussions.
- **Self-Study Tools:** Provides a wide range of in-text self-study exercises, worked examples, reflective questions, and end-of-chapter problems to aid independent study.
- **Revision Aids:** Includes definition panels and end-of-chapter checklists to assist students with effective revision.

## 3. USING YOUR TEXTBOOK

To maximize your learning from this textbook, consider the following approaches:

- **Engage with Visuals:** The textbook incorporates striking visuals, including three-dimensional molecular and protein structures. Utilize these to enhance understanding of complex concepts.
- **Practice Exercises:** Regularly complete the in-text self-study exercises, worked examples, reflective

questions, and end-of-chapter problems to reinforce learning and assess comprehension.

- **Review Definitions:** Refer to definition panels and end-of-chapter checklists for quick review and consolidation of key terms and concepts.
- **Apply Knowledge:** The content is structured to help you apply learned knowledge to real-world scenarios, including aspects of biology, medicine, and environmental science.

## 4. COMPANION WEBSITE

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An extensive companion website is available to supplement the textbook. This online resource provides additional learning tools, including multiple-choice questions and rotatable 3D molecular structures. Access the companion website at: [wps.pearsoned.co.uk/ema\\_uk\\_he\\_housecroft\\_inorgchem\\_5/](http://wps.pearsoned.co.uk/ema_uk_he_housecroft_inorgchem_5/).

## 5. CARE AND MAINTENANCE

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To ensure the longevity of your textbook, store it in a dry environment away from direct sunlight. Avoid bending the spine excessively or marking pages with permanent ink. Handle with clean hands to prevent stains and wear.

## 6. SUPPORT AND RESOURCES

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For any queries regarding the content or to report errata, please contact Pearson Education directly through their official website. Additional academic resources may be available through your educational institution or the companion website.

## 7. SPECIFICATIONS

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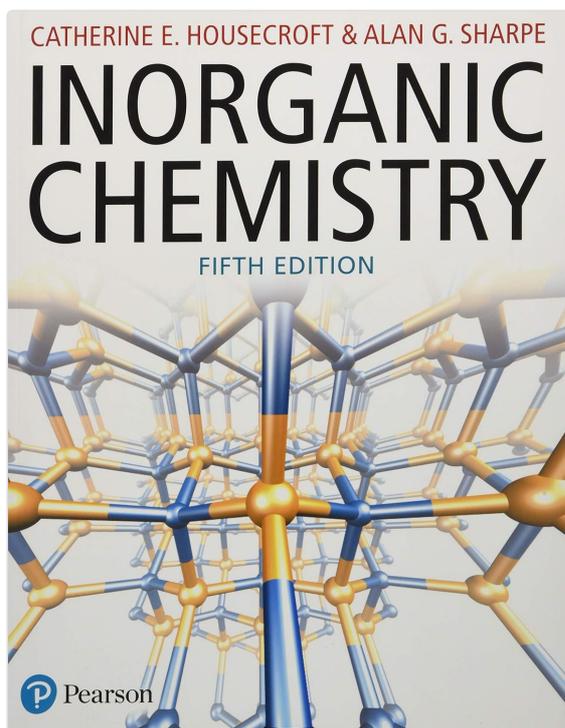
## 8. ABOUT THE AUTHORS

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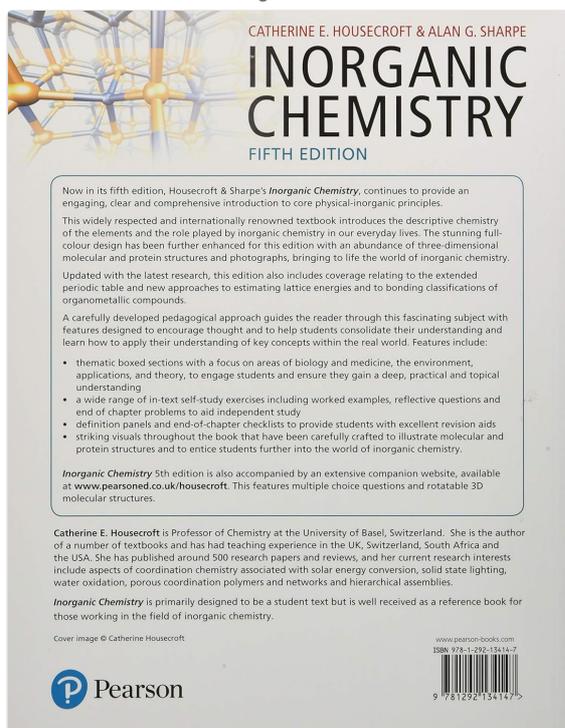
**Catherine E. Housecroft** is a Professor of Chemistry at the University of Basel, Switzerland. She is an author of numerous textbooks and has extensive teaching experience across the UK, Switzerland, South Africa, and the USA. Her research focuses on coordination chemistry related to solar energy conversion, solid-state lighting, water oxidation, porous coordination polymers, and hierarchical assemblies.

Alan G. Sharpe is a distinguished author who has contributed significantly to this edition of the textbook.

## 9. PRODUCT IMAGES



**Front Cover:** This image displays the front cover of the 'Inorganic Chemistry, 5th Edition' textbook. The cover features the title in prominent lettering, along with the authors' names, Catherine E. Housecroft and Alan G. Sharpe. A colorful, three-dimensional molecular structure illustration is central to the design, with the Pearson logo at the bottom.



**Back Cover:** This image shows the back cover of the 'Inorganic Chemistry, 5th Edition' textbook. It includes a summary of the book's content and key features, along with information about the authors, Catherine E.

Housecroft and Alan G. Sharpe. The Pearson logo and ISBN barcode are also visible.