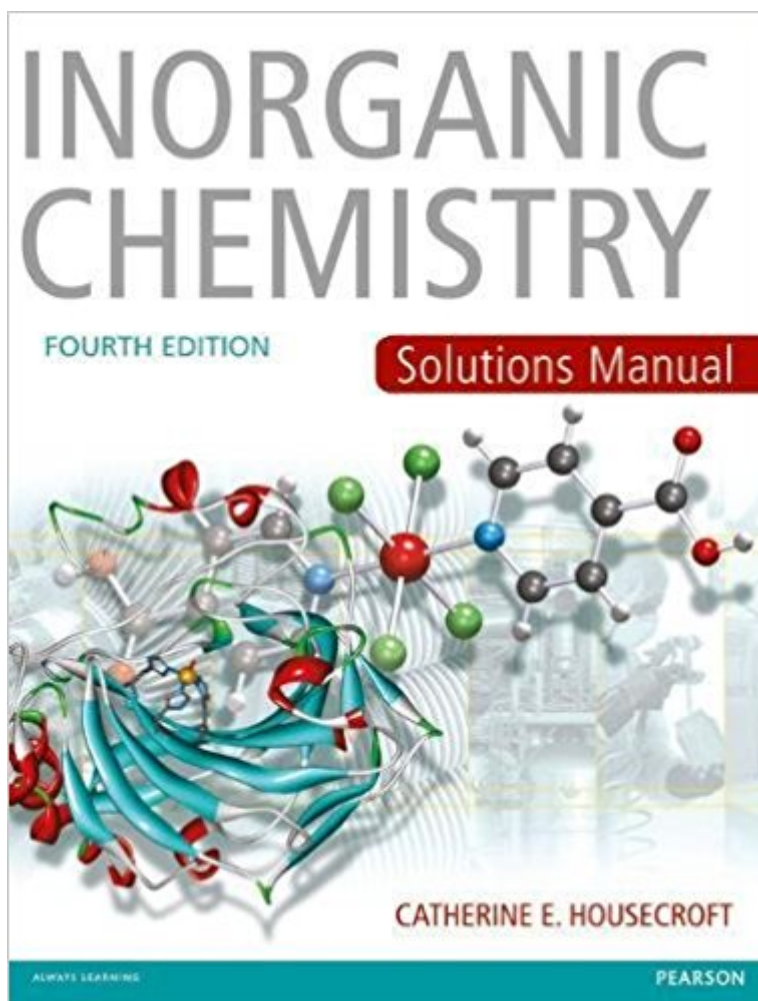




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Inorganic Chemistry Solutions Manual



Synopsis

Now in its fourth edition, Housecroft & Sharpe's *Inorganic Chemistry* is a well-respected and leading international textbook. *Inorganic Chemistry* is primarily designed to be a student text but is well-received as a reference book for those working in the field of inorganic chemistry. *Inorganic Chemistry* provides both teachers and students with a clearly written and beautifully-illustrated introduction to core physical-inorganic principles. It introduces the descriptive chemistry of the elements and the role played by inorganic chemistry in our everyday lives. Chapters on catalysis and industrial processes, bioinorganic chemistry, and inorganic materials and nanotechnology include many of the latest advances in these fields. There is a new chapter on experimental techniques, and the large number of worked examples, exercises and end-of-chapter problems illustrate a broad range of their applications in inorganic chemistry. The striking full-colour design includes a wealth of three-dimensional molecular and protein structures and photographs, enticing students to delve into the world of inorganic chemistry. Throughout its four editions, *Inorganic Chemistry* has successfully given both teachers and students the tools with which to approach the subject confidently and with enjoyment. Environmental issues linked to inorganic chemistry, topics relating inorganic chemistry to biology and medicine, and the applications of inorganic chemicals in the laboratory, industry and daily life form the basis of a wide range of topic boxes in the book, helping students to appreciate the importance and relevance of the subject. A strong pedagogic approach is at the heart of *Inorganic Chemistry*. While worked examples take students through calculations and exercises step by step, the sets of self-study exercises and end-of-chapter problems reinforce learning and develop subject knowledge and skills. The end-of-chapter problems include sets of 'overview problems', and problems entitled 'inorganic chemistry matters' which use everyday material to illustrate the relevance of the material in each chapter. Definitions panels and end-of-chapter checklists offer students excellent revision aids. Further reading suggestions, from topical articles to recent literature papers, encourage students to explore topics in more depth. --This text refers to an alternate Paperback edition.

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Customer Reviews

Now in its fourth edition, Housecroft & Sharpe's *Inorganic Chemistry* is a well-respected and leading international textbook. *Inorganic Chemistry* is primarily designed to be a student text but is well received as a reference book for those working in the field of inorganic chemistry. *Inorganic Chemistry* provides both teachers and students with a clearly written and beautifully illustrated introduction to core physical-inorganic principles. It introduces the descriptive chemistry of the elements and the role played by inorganic chemistry in our everyday lives. Chapters on catalysis and industrial processes, bioinorganic chemistry, and inorganic materials and nanotechnology include many of the latest advances in these fields. There is a new chapter on experimental techniques, and the large number of worked examples, exercises and end-of-chapter problems illustrate a broad range of their applications in inorganic chemistry. The striking full-colour design includes a wealth of three-dimensional molecular and protein structures and photographs, enticing students to delve into the world of inorganic chemistry. Throughout its four editions, *Inorganic Chemistry* has successfully given both teachers and students the tools with which to approach the subject confidently and with enjoyment. Environmental issues linked to inorganic chemistry, topics relating inorganic chemistry to biology and medicine, and the applications of inorganic chemicals in the laboratory, industry and daily life form the basis of a wide range of topic boxes in the book, helping students to appreciate the importance and relevance of the subject. A strong pedagogic approach is at the heart of *Inorganic Chemistry*. While worked examples take students through calculations and exercises step by step, the sets of self-study exercises and end-of-chapter problems reinforce learning and develop subject knowledge and skills. The end-of-chapter problems include sets of 'overview problems', and problems entitled 'inorganic chemistry matters', which use everyday material to illustrate the relevance of the material in each chapter. Definitions panels and end-of-chapter checklists offer students excellent revision aids. Further reading suggestions, from topical articles to recent literature papers, encourage students to explore topics in more depth. Supporting the fourth edition Companion Website available at www.pearsoned.co.uk/housecroft featuring multiple-choice questions and rotatable 3-D

molecular structures. A Solutions Manual, written by Catherine E. Housecroft, with detailed solutions to all end-of-chapter problems within the text is available for separate purchase, ISBN 978-0-273-74276-0. New to this edition Recent advances in basic inorganic chemistry. A new chapter detailing experimental techniques. Discussions of nuclear properties are introduced in relevant sections in the book rather than in a dedicated chapter. Reordering of chapters dealing with organometallic chemistry and catalysis. Improved coverage of ionic liquids, sustainable energy, solid state devices, superconductors and graphene. Many new self-study exercises and end-of-chapter problems. Updated statistical data. Thoroughly revised topic boxes: environment, biology and medicine, applications and theory. 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 over 400 research papers and reviews, and her current research interests include aspects of coordination chemistry associated with solar energy conversion, solid state lighting, water oxidation and porous coordination polymers and networks. --This text refers to an alternate Paperback edition.

When I first took inorganic as an undergrad, I didn't think that this book was clear enough. As a stand-alone text, it was not adequate. However, once I paired it with Shriver and Atkins, many of the holes were filled in. (Interestingly, Shriver/Atkins alone wasn't adequate either). They needed to be paired- particularly when studying M-O diagrams and lattices etc. I would also recommend Metal-Ligand Bonding by Janes and Moore. This combination was my elixir...my inorganic triumvirate. Hope this helps.

This is the book I'm using to decide whether or not to major in Chemistry as I'm still a lower division student. I can't put it down, the subject is addicting. The text is very clear so I'm not sure what the lower reviewers are talking about. As long as you're interested in it, it's a great text. Makes other subjects look dry as a bone.

There's a lot of unnecessary topics in the book, I as a student was very confuse on a lot of the concepts but that's not to blame the book but myself and the professor . However , the pictorial illustration in it is really good and guides me especially when determine the d orbitals and all the different shapes !

For the price, this book is right.1. You can find used copies of it for about \$65. And let's be for real.....Inorganic Chemistry is Inorganic Chemistry is Inorganic Chemistry. Spending \$200 for the same thing that you could get for \$65 leaves you with nothing to show for being \$135 lighter.2. The resale value on the book is good.3. The book is paperback and the presentation is not overly florid.4. There is enough for you to pick what you need (as an instructor) and leave the rest behind. Maybe you don't need *all that much discussion* about some topics. Enough to fill up a lecture but not enough to derive Schrodinger's Equation from first principles (does anyone really understand that anyway?)Verdict: Worth the money. Recommended to some Head of Department who is considerate of the amounts that his students have to spend.

It's ok, the author does project their bias onto the subject matter a little too evidently. The images were nice. Some concepts were not as fully explained as they should have been (like the Jahn-Teller effect).Overall, would recommend. But, there are some parts that could be expanded upon.

Great deal

This book served its purpose. It was in perfect condition and for a great price. It came when expected. A very advanced book though, moreso than the class for which it was intended.

I needed it for a class. It provided for that need.

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