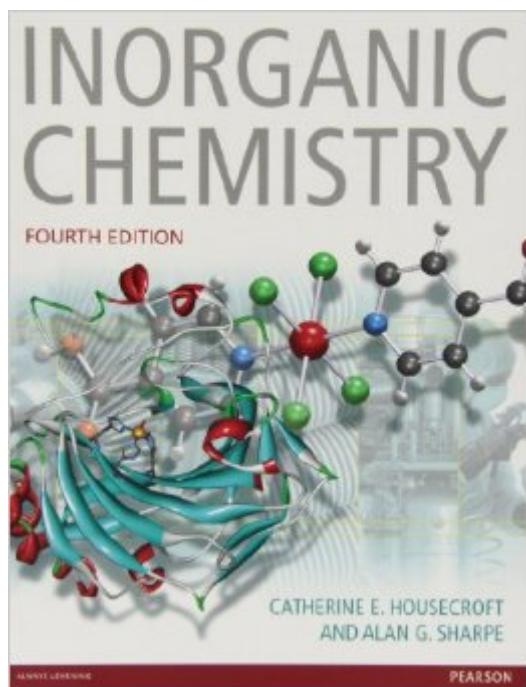


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Inorganic Chemistry (4th Edition)



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.

Book Information

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Customer Reviews

I find this book frustrating. The presentation is very poor. Topics are broached willy-nilly with paltry discussion. Sometimes it's just plain laughable. For example, Box 1.3, discussing the particle in the box: "There is one further restriction that we shall simply state: the boundary condition for the particle in the box is that [the wavefunction] must be zero when $x=0$ and $x=a$." Instead of a simple statement of this and expecting the student to take it on authority, why not give the *reason* for these boundary conditions, which can be summarized in a single sentence, i.e. 'the wavefunction must be continuous with the region outside the box, which is also zero'? Another example from the first chapter: the section "Ground state electronic configurations: experimental data". After I read this section I couldn't help but think to myself "where's the experimental data? what was the point of this section?" Which leads to my second criticism: who is this book for? It's too advanced for undergraduates and not advanced enough for graduates. This book attempts to be all-things-to-all-people, in my opinion, which makes it good for no one. It's as though the authors took an undergraduate text and added a few more bits here and there, sporadically, without rhyme or reason. This may or may not be the reason that this book weighs SIX pounds. The authors tried to shoe-horn too much into this book. Finally, the aesthetics of the book are atrocious. The color scheme used is distracting and hard on the eyes. Dark primary colors and light pastels on the same page?!? On some pages you can count up to six different colors used for separate things. I feel like my eyes are being pulled every direction and find it difficult to concentrate on the text.

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