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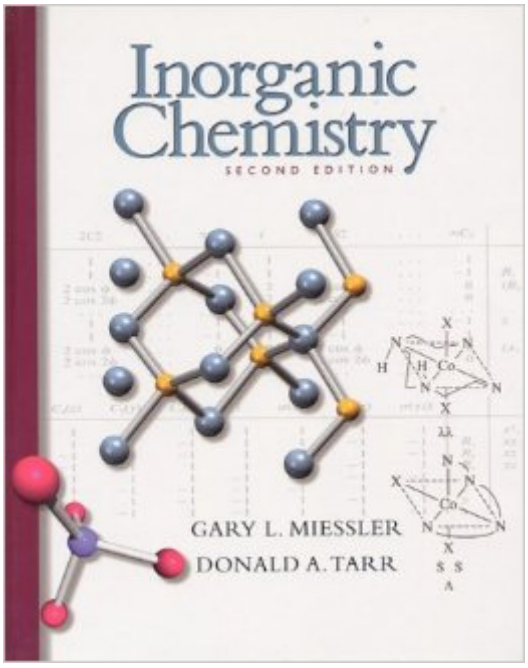
Inorganic Chemistry (2nd Edition)



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Synopsis

For one/two-term undergraduate level courses in Inorganic Chemistry. This text is ideal for instructors who want to use a strong molecular-orbital approach to explain structure and reactivity in inorganic chemistry.*Companion website - Features a gallery of 3-D structures in full colour and tutorials on symmetry and point group analysis. http://www.prenhall/com/~chem.*Strong molecular symmetry/group theory coverage.*Strong molecular-orbital approach.*Special topic coverage--E.g., organometallic, solid-state chemistry, bioinorganic, and environmental inorganic.

Book Information

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Average Customer Review: 3.7 out of 5 starsÂ Â See all reviewsÂ (67 customer reviews)

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Customer Reviews

It’s hard to write an inorganic textbook that will please everybody. In general, there are three different types of undergraduate inorganic chemistry courses offered:1) One semester Descriptive Inorganic (pre P. chem)2) One semester Advanced Inorganic (post P. chem)3) Two semester sequence (post P. chem)Missler and Tarr’s text is written for the second audience. If you are interested in a book that (i) is written at the jr/sr level; (ii) emphasizes group theory, molecular orbital theory, coordination chemistry, spectroscopy, reaction mechanisms and organometallic chemistry; and (iii) can be covered in one semester without killing the average undergraduate, then this is going to be a good text for you. If you are interested in descriptive chemistry or want a complete overview of inorganic chemistry, then you aren’t going to be happy with M&T.In my opinion, this is the best textbook on the market for a one-semester advanced inorganic course. My student’s opinions of M&T were somewhat lukewarm, but at least it didn’t inspire the scathing criticism that two other texts received in previous years. It’s not a perfect book, but it is concise and well written

for the audience it is intended to serve.

I've used this textbook for my senior inorganic course for many years now. While this new edition has added problems and made some fairly major revisions, it has one major flaw in my opinion. The authors have omitted Appendix B and the chapter on bioinorganic is gone as well. The absence of Appendix B is particularly bad. It contains all of the relevant numerical data like ionization energies, electron affinities, radii, and orbital potential energies. The information is available online at their website, but considering the price of the book went up, I don't see why a student should have to chase that information.

This was the book used for 5.03 (Inorganic Chemistry I) at MIT for Spring 2004. I thought it was a great book in terms of examples and explanations of point groups & molecular orbital diagrams. A lot of the chapters seemed to be organized such that the essential information was presented first, followed by applications and interesting side notes for each of the topics. This was very helpful when skimming before the final! I also recommend the solution manual!!

This textbook is a paradigm in the art of conciseness: while I admire Miessler and Tarr's ability to convey the massive amount of every chapter in so few pages, it makes for extraordinarily difficult. My professor thought this would be a useful text to cover our introductory class, as it does not waste time on basic information on periodicity, etc. However, after a few weeks of telling us what not to read (as it was far too abstruse), and resorting to other textbooks, she had to give up altogether on this one. I imagine this work's chief usefulness will come to graduate students needing a "refresher", but not to anyone else. There are too few grainy pictures, questions that rarely relate to the material in the chapter, and a text whose density rivals the Bible.

This book seems to be the new standard for undergraduate inorganic chem. Came into use after I left university.For those reviewers who don't like this text there are some good, less well known options:1. Concise Inorganic Chemistry by J.D. Lee, 5th edition2. Inorganic Chemistry by Catherine Housecroft and Alan G. Sharpe3. Basic Inorganic Chemistry by F. Albert Cotton, Geoffrey Wilkinson, Paul L. Gaus4. Descriptive Inorganic Chemistry by Geoff Rayner-Canham, Tina Overton. A nice, easy read for a one semester, terminal course. Latest is the 6th edition. Not the be-all and end-all of inorganic chem, though. (A book with the same title - Descriptive Inorganic Chemistry - by House and House is also available; seems good).5. Concepts and Models of Inorganic Chemistry

by Bodie E. Douglas, Darl H. McDaniel, John J. AlexanderCheck out my listmania "fundamentals of Inorganic chemistry" & my other reviews for other chem books.

This book served as the textbook for my advanced inorganic chemistry class in college. Inorganic chemistry may be inherently difficult. That being said, I do not feel that Miessler was a particularly apt guide in navigating the byzantine intricacies of subjects like Molecular Oribital Theory. I found myself having to re-read passages, to parse out important points. The integration of these points into the body of knowledge at large felt to me to be a charge which Miessler expects the student to bear. That is to say, the text can at times feel fragmentary, devoid of the holistic picture, what I reckon the systematic nature of scientific knowledge.That being said, I really do not know of any better text books on the subject.

I suppose you could say the book covers a wide range of complicated material, but that’s pretty much it. It’s extremely convoluted, an explanations are generally very poor. I had to search Google for supplementary links that actually explained most of the major concepts.Not recommended.

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