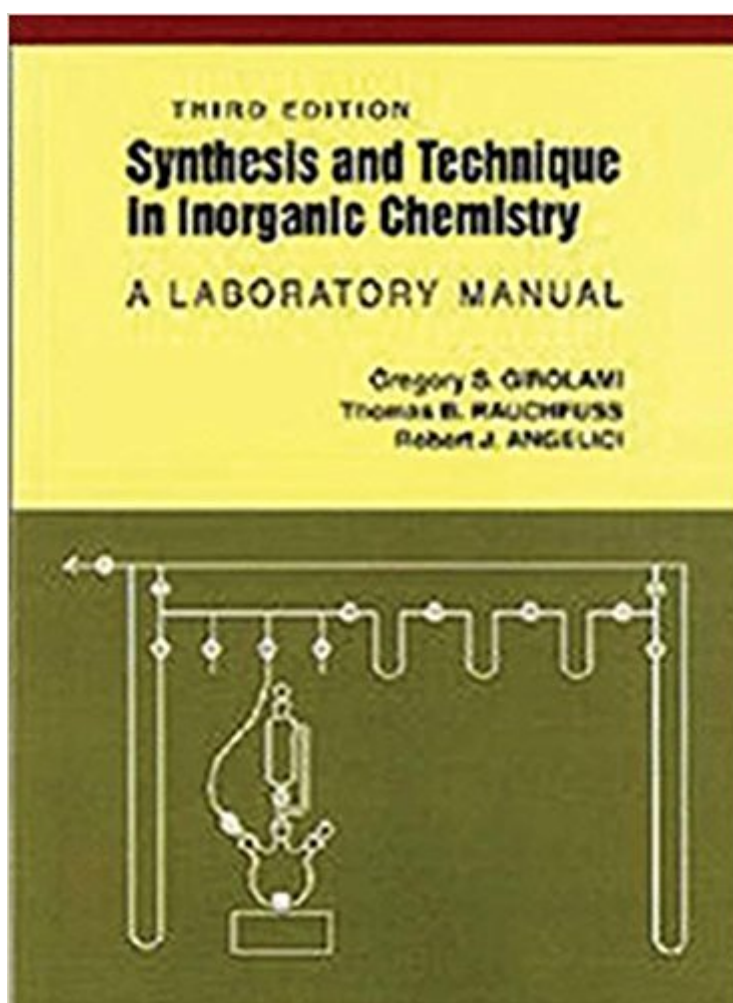




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Synthesis And Technique In Inorganic Chemistry: A Laboratory Manual



Synopsis

Previously by Angelici, this laboratory manual for an upper-level undergraduate or graduate course in inorganic synthesis has for many years been the standard in the field. In this newly revised third edition, the manual has been extensively updated to reflect new developments in inorganic chemistry. Twenty-three experiments are divided into five sections: solid state chemistry, main group chemistry, coordination chemistry, organometallic chemistry, and bioinorganic chemistry. The included experiments are safe, have been thoroughly tested to ensure reproducibility, are illustrative of modern issues in inorganic chemistry, and are capable of being performed in one or two laboratory periods of three or four hours. Because facilities vary from school to school, the authors have included a broad range of experiments to help provide a meaningful course in almost any academic setting. Each clearly written & illustrated experiment begins with an introduction that highlights the theme of the experiment, often including a discussion of a particular characterization method that will be used, followed by the experimental procedure, a set of problems, a listing of suggested Independent Studies, and literature references.

Book Information

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Customer Reviews

This is an excellent update to a classic inorganic chemistry laboratory text. --Professor Margret J. Geselbracht, Reed College
It is highly recommended as a textbook for a one-semester advanced inorganic synthesis course. --Synth. React. Inorg. Met. Org.

The authors are both professors in the chemistry department of the University of Illinois, Urbana.

It's good but not great. I feel the order of this book needs a little work. Sometimes it refers you to a way to set something up later on in the book. Personally feel it should be more sequential where if you are working on lab 1, all the setup stuff required should be shown in lab 1 and not "refer to lab 13 for this setup". Other than that, does cover a lot of topics of inorganic synthesis. Would love to try them all but don't necessarily have all the equipment and reagents to do so.

A great book for chemistry students

We didn't use all of the experiments, but the ones used were interesting and educational. They were engaging and provided good guidance for instruction and cautions.

A course on inorganic synthesis and reactions should involve the preparation of inorganic compounds using vacuum line, air- and moisture-exclusion, electrochemical, high-pressure and other synthetic techniques. It should investigate the kinetic and mechanistic studies of inorganic compounds. "Synthesis and Techniques in Inorganic Chemistry" simply fulfills all the above purposes. While undergraduate chemistry usually doesn't focus on inorganic laboratory, text written with this much details is a rarity. With 23 experiments and an appendix on techniques, this lab text covers cutting-edge research type of experiments on superconductivity, molecular sieve zeolite-X and buckminsterfullerene (C₆₀). Organometallics is also covered with experiments on organoiron and metal carbonyl cluster. The classical coordination compounds synthesis and mechanism and vacuum line synthesis can also be found in this text. Students can pace and select experiments from all major topic areas over the course of one semester. This is a great resource and reference for modifying existing experiments and shaping up lab techniques.

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