



Synthesis and Technique in Inorganic Chemistry: A Laboratory Manual

By Gregory S. Girolami, Thomas B. Rauchfuss, Robert J. Angelici

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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.

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Editorial Review

Review

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.

About the Author

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

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