DESCRIPTION

This volume of *Inorganic Syntheses* spans the preparations of wide range of important inorganic, organometallic and solid-state compounds. The volume is divided into 6 chapters. The first chapter contains the syntheses of some key early transition metal halide clusters and the very useful mononuclear molybdenum(III) synthon, MoCl₃(THF)₃. Chapter 2 covers the synthesis of a number of cyclopentadienyl compounds, including a novel route to sodium and potassium cyclopentadienide, MC₅H₅. Chapter 3 details synthetic procedures for a range of metal-metal bonded compounds, including several with metal-metal multiple bonds. Chapter 4 contains procedures for a range of early and late transition metal compounds, each a useful synthon for further synthetic elaboration. Chapter 5 deals with the synthesis of a number of main group compounds and ligands, while Chapter 6 covers teaching laboratory experiments.

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Professor Gregory S. Girolami received his B.S. degrees in chemistry and physics from the University of Texas at Austin and his Ph.D. degree from the University of California at Berkeley. Thereafter, he was a NATO postdoctoral fellow with Sir Geoffrey Wilkinson at Imperial College of Science and Technology, and joined the Illinois faculty in 1983.
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