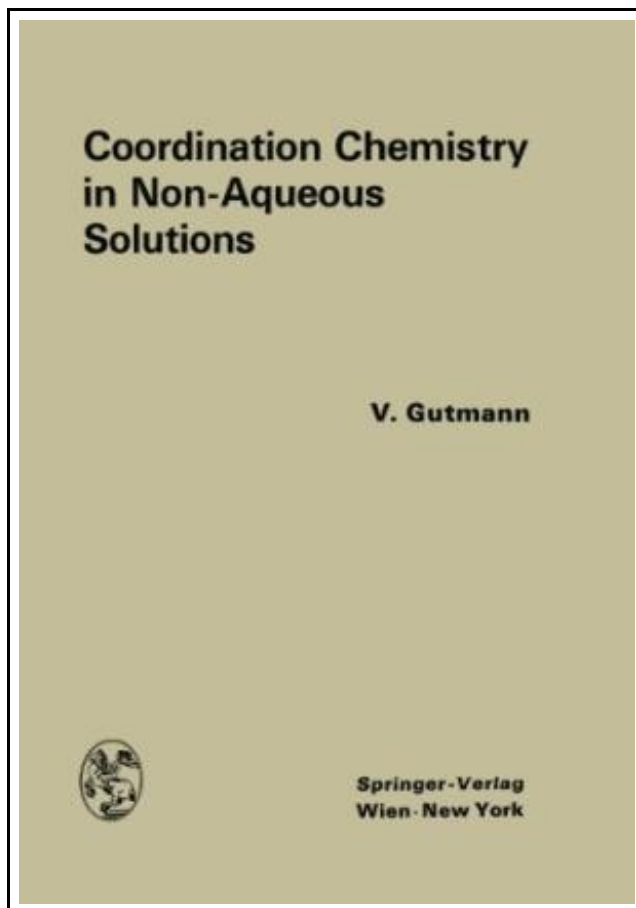


Coordination Chemistry in Non-Aqueous Solutions



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Reviews

This written publication is fantastic. I am quite late in start reading this one, but better then never. You will not feel monotony at at any time of your respective time (that's what catalogues are for concerning should you ask me).

(Tevin McClure)

COORDINATION CHEMISTRY IN NON-AQUEOUS SOLUTIONS



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Book Condition: New. Publisher/Verlag: Springer, Wien | Considerable attention has been focussed on non-aqueous chemistry in the last decade and this situation has arisen no doubt from a realization of the vast application of this branch of chemistry. Within this field much energetic work has been channelled into the determination of the coordination chemistry of transition metals in these solvent systems. Elaborate experimental techniques have been developed to discover, in particular, the magnetic and spectral properties of complex compounds, and the theoretical background of such systems has been expanded to corroborate, as far as possible, the experimental results. This text has, however, a different bias from many books currently available on this branch of chemistry, and is designed to be a survey of known facts on many of the non-aqueous solvents currently in use mainly in the field of halogen chemistry, together with a discussion of these facts in the light of accepted principles. As such, it is hoped to close a gap in the literature of which many workers and advanced students in this field will be aware. The treatment is meant to be selective rather than completely comprehensive and must inevitably reflect some of the special interests of the author. | I General.- 1. Introduction.- 2. Classification of Solvents.- 3. Physical Properties.- 4. Acids and Bases (Acidic and Basic Function).- A. Classical Definition.- B. The Protonic Concept.- C. The Solvent-System Concept.- D. The Ionotropic Definitions.- E. The Lewis Concept.- F. Hard and Soft Acids and Bases.- 5. Techniques with Non-Aqueous Solvents.- II Principles of Coordination Chemistry in Non-Aqueous Solutions.- 1. Donor Solvents and Acceptor Solvents.- 2. Coordinating Properties of Solvents.- A. Donor Strength.- B. The Donor Number.- C. Prediction of Donor-Acceptor Interactions.- D. Hydrogen Bonding.- E. Steric Factors.- F. Solubilities.- 3. Coordination Equilibria in Solution.- A. Formation...



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