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Transition Metal Complexes; By Insertion into the Metal-Ligand Bonds; From Bidentate and Polydentate Oxygen Donor Ligands (from Polyethers and Crown Ethers, Macrocycles, 2,4-Pentanedione, etc.); From Oxides of the Main Group Elements; By Reaction with the Metals By Reaction with Complexes of the MetalsBy Insertion into Metal-Ligand Bonds; From OH-, OR-, O2/2-, O2-; By Ligand Substitution Reactions with Complexes of the Metals; By Oxidation of the Metals and Their Complexes; By Metal Atom and Related Reactions; Formation of the Bond Between Sulfur anda Group IB or IIB Element; From Sulfur; By Direct Reaction with Metals; By Reaction with Metal Complexes; From Hydrogen Sulfide, Hydrogen Polysulfides, and Thiols; From Thiocarbonyls, Thioethers, Organic Polysulfides, and Other Sulfur Donor Ligands
From Organic Thio Acids and Other Thio Acids of Main Group ElementsBy Oxidation of the Metals or Their Complexes; By Ligand Replacement Reactions with Complexes of the Metals and by Sulfur Atom Abstraction; From Bidentate and Polydentate Sulfur Donor Atoms; By Sulfur Addition, Oxidation and Sulfur Abstraction Reactions; By Ligand Substitution Reactions; From Sulfur Containing Anions (S2-, Sx2-, [HS-], [RS]-); By Metal Atom and Related Reactions; Formation of the Bond Between Selenium, Tellurium, and Polonium and Group IB or IIB Elements; By Reactions with the Group IB and IIB Metals Formation of the Bond with SeleniumFormation of the Bond with Tellurium; Electrolytic Reactions Between the Elements; By Reaction with Group IB or Group IIB Metal Compounds; Binary Compounds; Ternary Comounds; By Reactions of Binary Acids of Selenium and Tellurium and Their Derivatives with Metal Compounds; By Reaction of Oxides of Selenium and Tellurium with Metal Compounds; By Reactions of the Anions and Oxyanions of the Elements with Metal Compounds; From Donor Ligands Incorporating the Elements Selenium and Tellurium; By Reaction with the Metals; Chemically Driven Reactions Electrochemically Driven Reactions

Sommario/riassunto

Boasting numerous industrial applications, inorganic chemistry forms the basis for research into new materials and bioinorganic compounds such as calcium that act as biological catalysts. Now complete, this highly acclaimed series presents current knowledge in all areas of inorganic chemistry, including chemistry of the elements; organometallic, polymeric and solid-state materials; and compounds relevant to bioinorganic chemistry.