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Buy Organotransition Metal Chemistry: From Bonding to Catalysis on Amazon.com FREE SHIPPING on qualified orders Joining of Polymer-Metal Hybrid Structures: Principles and Applications [Sergio T. Amancio Filho, Lucian-Attila Blaga] on Amazon.com. *FREE* shipping on qualifying offers. A comprehensive introduction to the concepts of joining technologies for hybrid structures This book introduces the concepts of joining technology for polymer-metal hybrid ...In chemistry, orbital hybridisation (or hybridization) is the concept of mixing atomic orbitals into new hybrid orbitals (with different energies, shapes, etc., than the component atomic orbitals) suitable for the pairing of electrons to form chemical bonds in valence bond theory. An alloy is a combination of metals or of a metal and another element. Alloys are defined by a metallic bonding character. An alloy may be a solid solution of metal elements (a single phase) or a mixture of metallic phases (two or more solutions).