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coordination chemistry is the study of the compounds that form between metals and ligands where a ligand is any molecule or ion that binds to the metal a metal complex is the unit containing the metal bound to its ligands

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cisplatin $PtCl_2(NH_3)_2$ is a coordination complex of platinum II with two chloride and two ammonia ligands it is one of the most successful anticancer drugs a coordination complex is a chemical compound consisting of a central atom or ion which is usually metallic and is called the coordination centre and a surrounding array of bound molecules or ions that are in turn known as ligands

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ligand field theory is the most powerful bonding theory for coordination compounds it is essentially molecular orbital theory applied to coordination compounds it can explain covalent bonding in coordination compounds it can explain their shapes it can explain their magnetism and their electronic spectra

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chapter 23 chemistry of coordination compounds

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what is coordination there are 3 ways of looking at bonding in coordination compounds σ valence bond theory σ ligand field theory adaptation of MO theory σ crystal field theory theory of pure electrostatic interactions so ligands must have lone pairs of electrons

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