**423 chem Reaction mechanisms of inorganic compounds**

**Introduction to inorganic Reaction mechanisms**

Rate law

Stability Constants: Trends

Kinetics and Mechanisms/lability/Reactivates

Solvent Exchange/Complex Formation

Eigen-Wilkins Mechanism

**Ligand substation reactions:**

Patterns of reactivity

The classification of mechanisms

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**The substitution of square-planar complexes**

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The shape of the activated complex

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The kinetic Trans Effect/Effect of Entering and leaving ligands

**The substitution of octahedral complexes**

Rate laws and their interpreation

The activation of octahedral complexes

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**Redox reactions**

The classification of redox reactions: Outer-Sphere Electron Transfer/Inner-Sphere Redox./ The theory of redox reactions