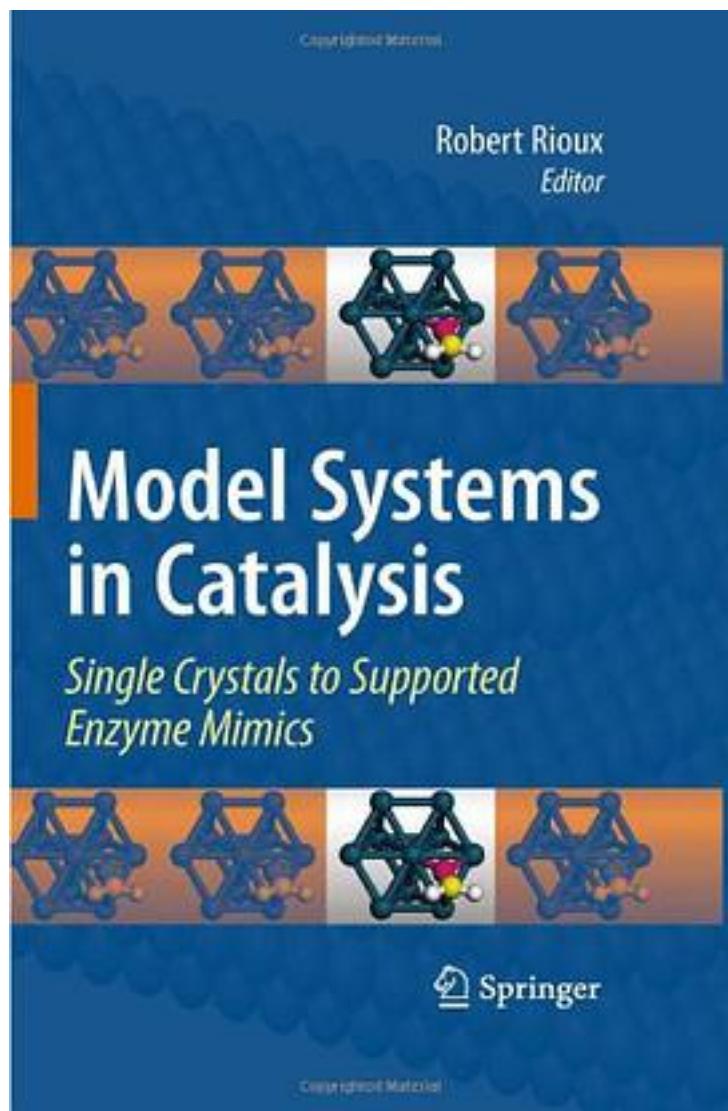


Model Systems in Catalysis



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The book concentrates on heterogeneous catalysis, but extends well beyond the most obvious model system -- the single crystal. The book builds upon increasing complexity into catalyst models -- that is building catalysts with controlled properties that begin to rival the complexity found in industrial based heterogeneous catalysts. This includes the deposition of clusters on flat, thin oxide surfaces amenable to characterize by electron, ion and photon based spectroscopic techniques, the thermal decomposition of organometallic clusters on surfaces with well-defined stoichiometry, to the tethering of homogeneous catalysts to metal oxide surfaces (i.e. heterogenized homogeneous catalysis) and finally evolving to a supported structural and functional mimic of the ultimate catalyst, the enzyme.

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