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Catalysis: Selected Applications traces the evolution and challenges faced in the field of catalysis. Beginning with the fundamental concepts based on the coordination of the molecules for activation, the mechanistic aspects of various typical homogeneously catalyzed reactions including polymerization reactions are elucidated outlining various manifestations of homogeneous catalysis both theory and practice. Electro catalysis, a special application of catalysis is given due importance and the basis and the relevance of electro-catalysis is emphasized. The catalysis required for sustainable development is outlined and discussed at length. Catalysis is often associated with surface acid and base properties and the manifestations and exploitation of acid-base catalysis are dealt with in a separate chapter. Finally, the book outlines the basic phenomenon of mass transport in catalytic systems and the role of diffusion in catalysis. The kinetic modulation of the mass transport in catalysts is given special emphasis.