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Kinetics of Catalytic Reactions--Solutions Manual

M. Albert Vannice

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Kinetics of Catalytic Reactions--Solutions Manual M. Albert Vannice
This advanced textbook teaches readers to design kinetic experiments involving heterogeneous catalysts, to characterize these catalysts, to acquire rate data, to find heat and mass transfer limitations in these data, to select reaction models, to derive rate expressions based on these models, and to assess the consistency of these rate equations. Special emphasis is placed on assessing mass transfer effects. Discussion of adsorption isotherms and reaction models explains the limitations of these models and their application. Ideal and nonideal surfaces are considered, as well as enzyme catalysis. Exercises and worked examples abound. The book will be used in courses in kinetics or catalysis and also as a supplement in advanced chemical engineering courses on kinetics and reactor design. It will be used in the disciplines of Chemical Engineering, Materials Science, Fuels Science, and Chemistry This should be a tremendously useful reference book as industrial scientists design runs with heterogeneous catalysts, interpret their experimental data, and model the kinetics to describe their results.

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