



Fundamentals of Chemical Reaction Engineering (Dover Civil and Mechanical Engineering)

Mark E. Davis PhD, Robert J. Davis, Engineering

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Appropriate for a one-semester undergraduate or first-year graduate course, this text introduces the quantitative treatment of chemical reaction engineering. It covers both homogeneous and heterogeneous reacting systems and examines chemical *reaction* engineering as well as chemical *reactor* engineering. The authors take a chemical approach, helping students develop an intuitive feeling for concepts, rather than an engineering approach, which tends to overlook the inner workings of systems and objects.

Each chapter contains numerous worked-out problems and real-world vignettes involving commercial applications. Topics include the basics of reaction kinetics and rate constants of elementary reactions, reactors for measuring reaction rates and the steady-state approximation, and heterogeneous catalysis. Additional subjects include the effects of transport limitations on rates of solid-catalyzed reactions, microkinetic analysis of catalytic reactions, nonideal flow in reactors, nonisothermal reactors, and reactors accomplishing heterogeneous reactions. Excellent illustrations complement the text, which concludes with three helpful appendices.

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