



# Chemical Kinetics and Dynamics (2nd Edition)

*Jeffrey I. Steinfeld, Joseph S. Francisco, William L. Hase*

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Presents a balanced presentation of the macroscopic view of empirical kinetics and the microscopic molecular viewpoint of chemical dynamics. Stressing interconnections between phenomenological chemical kinetics and molecular reaction dynamics, the book discusses reactions in gas phase, liquids, and at surfaces; molecular potential surfaces; gas-gas and gas-surface theories applied to reactive collisions. It features applications to atmospheric chemistry, combustion, and chemical lasers as well as multiple methods for solving kinetic equations. It also addresses topics not found in other books: Information theory, Stochastic simulation, and Sensitivity analysis. The second edition of *Chemical Kinetics and Dynamics* has been revised to include the latest information as well as new topics, such as heterogeneous reactions in atmospheric chemistry, reactant product imaging, and molecular dynamics of  $H + H_2$ . It provides an experimental observation of the transition state ("Femtochemistry"); new treatment of stratospheric chemistry, including heterogeneous processes, balance among catalytic cycles, environmental consequences, and policy implications as well as current database information on NIST kinetics as well as JPL evaluations. A valuable resource on kinetics for professional atmospheric kineticists and chemical engineers.

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