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Determination of rate

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Kinetics: Rate Laws

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Mathematics Chemical
kinetics is the study of how
fast chemical reactions
occur and of the factors
that affect these rates. The
study of reaction rates is
closely related to the study
of reaction mechanisms,
where a reaction mechanism
is a theory that explains
how a reaction occurs.

5: Chemical Kinetics,
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Chemical kinetics is the study of chemical processes and rates of reactions. This includes the analysis of conditions that affect speed of a chemical reaction, understanding reaction mechanisms and transition states, and forming mathematical models to predict and describe a chemical reaction.

Understand Chemical Kinetics
and Rate of Reaction
Chemical kinetics and
reaction dynamics brings
together the major facts and
theories relating the rates
with which chemical
reactions occur from both

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rate = $\frac{D[B]}{Dt}$ $D[A] = \text{change}$

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in concentration of A over
time period Δt $D[B]$ = change
in concentration of B over
time period Δt Because $[A]$
decreases with time, $D[A]$ is
negative. Chung (Peter)
Chieh University of Waterloo

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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 $\text{H} + \text{H}_2$. It provides an experimental observation of the transition state ("Femtochemistry"); new treatment of stratospheric chemistry, including heterogeneous processes,

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Chemical change is guided and driven by energetics, but the actual route it takes and the speed with which it occurs is the subject of "dynamics". Dynamics is itself divided into two general areas: kinetics, which deals with the rate of change and is the subject of this lesson.

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Chemical dynamics: slow
invariant ...

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Reaction dynamics -
Wikipedia

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Great job in covering most of the fundamentals of diverse areas of chemical kinetics in such small pages! Would have given five stars only if it discussed molecular reaction dynamics in a bit more detail.

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