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5: Chemical Kinetics, Reaction Mechanisms, and Chemical ...

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Understand Chemical Kinetics and Rate of Reaction

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Chemical Kinetics Reaction rate is the change in the concentration of a reactant or a product with time (M/s). A B
rate = $-\frac{D[A]}{Dt}$ rate = $\frac{D[B]}{Dt}$ D[A] = change in concentration of A over time period Dt D[B] = change in concentration of B

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

Chemical Kinetics - Duke University

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Chemical Kinetics and Reaction Dynamics. by Paul L. Houston

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Houston ...

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 ...

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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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Reaction dynamics is a field within physical chemistry, studying why chemical reactions occur, how to predict their behavior, and how to control them. It is closely related to chemical kinetics, but is concerned with individual chemical events on atomic length scales and over very brief time periods. It considers state-to-state kinetics between reactant and product molecules in specific quantum ...

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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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