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occur and of the factors that affect  
these rates. The study of reaction

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rates is closely related to the study of reaction mechanisms, where a reaction mechanism is a theory that explains how a reaction occurs.

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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

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Understand Chemical Kinetics and  
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change in concentration of A over time  
period  $Dt$   $D[B] =$  change in  
concentration of B over time period  $Dt$   
Because [A] decreases with time,  $D[A]$   
is negative. Chung (Peter) Chieh  
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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



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general areas: kinetics, which deals with the rate of change and is the subject of this lesson.

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17.1: Rates of reactions and rate laws  
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The paper has two goals: It presents

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Reaction Dynamics, and methods for basic ideas, notions, and methods for reduction of reaction kinetics models: quasi-steady-state, quasi-equilibrium, slow invariant manifolds, and limiting steps. It describes briefly the current state of the art and some latest achievements in the broad area of model reduction in chemical and

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deals with the rate of change and is the subject of this lesson.

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fundamentals of diverse areas of

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Would have given five stars only if it discussed molecular reaction dynamics in a bit more detail.

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