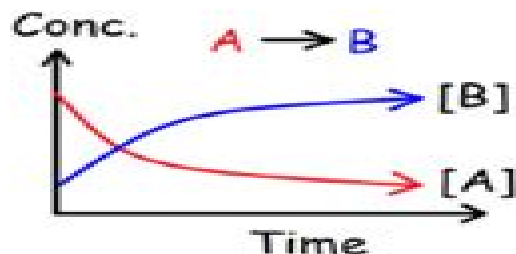


Chemical Kinetics:



Instantaneous Rate of Appearance:

$$\text{Rate} = + \frac{d[B]}{dt}$$

Method of Initial Rates:

Trial	[A]	[B]	[C]	I. Rate
1	0.10 M	0.10 M	0.10 M	0.20 M/s
2	0.20 M	0.10 M	0.10 M	0.40 M/s
3	0.10 M	0.20 M	0.10 M	0.80 M/s
4	0.10 M	0.10 M	0.20 M	0.20 M/s

Rate Constant k:

$$k = \frac{\text{Rate}}{[A]^x[B]^y[C]^z}$$

Units of k: $M^{1-n} t^{-1}$ or $(mol)^{1-n} (L)^{n-1} t^{-1}$

Note: $M = mol \cdot L^{-1}$ and $t \rightarrow s, min, hr, days$

Unimolecular:



Bimolecular:



Termolecular:



Average Rate of Appearance: $A \rightarrow B$

$$\text{Rate} = + \frac{\Delta[B]}{\Delta t} = \frac{[B]_f - [B]_i}{t_f - t_i}$$

Average Rate of Disappearance:

$$\text{Rate} = - \frac{\Delta[A]}{\Delta t}$$

Rate of a Chemical Reaction:



$$\text{Rate} = - \frac{1}{2} \frac{\Delta[A]}{\Delta t} = - \frac{1}{3} \frac{\Delta[B]}{\Delta t} = + \frac{1}{4} \frac{\Delta[C]}{\Delta t} = + \frac{1}{5} \frac{\Delta[D]}{\Delta t}$$

Differential Rate Law Expression:

$$\text{Rate} = k[A]^x[B]^y[C]^z$$

Finding The Order of a Reactant:

$$x = \frac{\log \left(\frac{\text{Rate 2}}{\text{Rate 1}} \right)}{\log \left(\frac{[A]_2}{[A]_1} \right)} \quad y = \frac{\log \left(\frac{\text{Rate 3}}{\text{Rate 1}} \right)}{\log \left(\frac{[B]_3}{[B]_1} \right)}$$

Overall order of the reaction:

$$\text{Order} = x + y + z$$

Factors Affecting the Rate of a Reaction:

1. Temperature
2. Concentration
3. Catalyst
4. Surface Area
5. The Nature of the Reactants

Reaction Mechanisms:



Note: Catalyst $\rightarrow B$ Intermediate $\rightarrow D$

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Peter Chen, Victor Martinez-Luaces



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Energy Research Abstracts ,1992 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1976-05 Research in Progress ,1965 *Nonlinear Systems and Matrix Analysis - Recent Advances in Theory and Applications* Peter Chen,Victor Martinez-Luaces,2024-11-27 Nonlinear system analysis is of interest to engineers sociologists physicists mathematicians and many other scientists since most systems are inherently nonlinear in nature In mathematics a nonlinear system does not satisfy the superposition principle such as in a linear system Therefore the theories underlining nonlinear analysis and their applications need to be developed on their own merit The first section of this book is a collection of examples reporting recent advances in both theory and applications of nonlinear system analysis The contents of each chapter will provide in depth foresight to interested readers As numerical linearization to a set of matrix equations is still the principal method used to solve a nonlinear system matrix analysis is the topic of the second section of this book The matrices have invaded practically all areas of mathematics the experimental and social sciences engineering and technology This volume updates purely mathematical theoretical aspects and it also presents concrete examples of the wide range of applications of matrix theory in other disciplines *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1995 **Monthly Catalog of United States Government Publications** ,1977 **Monthly Catalogue, United States Public Documents** ,1977 **Applied Heterogeneous Ca...** ,1987 **Experimental and Kinetic Modeling Study of Cyclohexane and Its Mono-alkylated Derivatives Combustion** Zhandong Wang,2018-01-23 This thesis investigates the combustion chemistry of cyclohexane methylcyclohexane and ethylcyclohexane on the basis of state of the art synchrotron radiation photoionization mass spectrometry experiments quantum chemistry calculations and extensive kinetic modeling It explores the initial decomposition mechanism and distribution of the intermediates proposes a novel formation mechanism of aromatics and develops a detailed kinetic model to predict the three cycloalkanes combustion properties under a wide range of conditions Accordingly the thesis provides an essential basis for studying much more complex cycloalkanes in transport fuels and has applications in engine and fuel design as well as emission control *Bibliography of Scientific and Technical Bibliographies* ,1968 **Current Catalog** National Library of Medicine (U.S.),1979 First multi year cumulation covers six years 1965 70

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