

15 • Chemical Kinetics

Week 10 - 2020

1. Consider the reaction of $\text{NO}_2(\text{g}) + \text{CO}(\text{g}) \rightarrow \text{N}_2(\text{g}) + \text{CO}_2(\text{g})$

The following data were collected from three experiments using the method of initial rates:

	Initial $[\text{NO}_2]$ (mol L ⁻¹)	Initial $[\text{CO}]$ (mol L ⁻¹)	Initial rate (mol L ⁻¹ s ⁻¹)
Experiment 1	0.001	0.001	0.001 s ⁻¹
Experiment 2	0.002	0.001	0.004 s ⁻¹
Experiment 3	0.001	0.002	0.001 s ⁻¹

a. Determine the order of reaction with respect to each reactant.

Compare experiment 1 and experiment 2. In the two experiments the $[\text{CO}]$ remains the same and quadruples. Hence a constant value indicates a zero-order $[\text{CO}]$.
 Compare experiment 1 and experiment 3. In the two experiments the $[\text{NO}_2]$ doubles, the rate quadruples. Hence a slope with a constant gradient (2) is

b. Write the rate equation for the reaction.

$\text{rate} = k[\text{NO}_2]^2$

c. Calculate the rate constant.

Using experiment 1 above:

rate = $\frac{\text{mol}}{\text{L s}}$

$$0.001 \frac{\text{mol}}{\text{L s}} = k (0.001 \text{ mol L}^{-1})^2 \quad \text{Hence } k = \frac{\text{mol}}{\text{L}^2 \text{ s}}$$

$$k = \frac{0.001 \text{ mol L}^{-1} \text{ s}^{-1}}{0.001^2 \text{ mol}^2 \text{ L}^{-2}}$$

d. Calculate the rate constant using the third experiment (using the $[\text{NO}_2]$ and $[\text{CO}]$ in the initial concentration).

$$0.004 \frac{\text{mol}}{\text{L s}} = k (0.002 \text{ mol L}^{-1})^2 \quad \text{Hence } k = \frac{\text{mol}}{\text{L}^2 \text{ s}}$$

e. Use the two rate constants for the reaction to determine the rate constant using experiment 2. Use the two rate constants to determine the order of reaction.

$$\frac{0.004 \text{ mol L}^{-1} \text{ s}^{-1}}{0.001 \text{ mol L}^{-1} \text{ s}^{-1}} = \frac{k (0.002 \text{ mol L}^{-1})^2}{k (0.001 \text{ mol L}^{-1})^2} \quad \text{Hence } k = \frac{\text{mol}}{\text{L}^2 \text{ s}}$$

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15 Chemical Kinetics Answer

Vivek Patel



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Chemical Kinetics Praveen Tyagi, 2006 Contents Chemical Kinetics Determination of Order of Reaction Activation Energy and Chemical Reactions Kinetics of Fast Reactions Photo chemistry Kinetics of Homogeneous Reactions and Catalysis

Chemical Kinetics, **Chemical Kinetics and Mechanism** M Mortimer, P G Taylor, 2007-10-31 Chemical Kinetics and Mechanism considers the role of rate of reaction It begins by introducing chemical kinetics and the analysis of reaction mechanism from basic well established concepts to leading edge research Organic reaction mechanisms are then discussed encompassing curly arrows nucleophilic substitution and E1 and E2 elimination reactions The book concludes with a Case Study on Zeolites which examines their structure and internal dimensions in relation to their behaviour as molecular sieves and catalysts The accompanying CD ROM contains the Kinetics Toolkit a graph plotting application designed for manipulation and analysis of kinetic data which is built into many of the examples questions and exercises in the text There are also interactive activities illustrating reaction mechanisms The Molecular World series provides an integrated introduction to all branches of chemistry for both students wishing to specialise and those wishing to gain a broad understanding of chemistry and its relevance to the everyday world and to other areas of science The books with their Case Studies and accompanying multi media interactive CD ROMs will also provide valuable resource material for teachers and lecturers The CD ROMs are designed for use on a PC running Windows 95 98 ME or 2000 **Chemical Kinetics** Keith James Laidler, 1987 Basic concepts of both experimental and theoretical chemical kinetics are concisely explained for those seeking a general knowledge of the subject from this well known text now being totally revised and updated In addition the book is an invaluable starting point for those embarking on research in kinetics and physical chemistry Extensive chapter bibliographies point the way toward more detailed accounts or specialized aspects Historical background included in both chapter introductions and biographical sketches of important researches in chemical kinetics *Chemical Kinetics* Ralph E. Weston, Harold A. Schwarz, 1972 **The Foundations of Chemical Kinetics** Sidney William Benson, 1982 Chemical Kinetics Vivek Patel, 2012-02-29 Chemical Kinetics relates to the rates of chemical reactions and factors such as concentration and temperature which affects the rates of chemical reactions Such studies are important in providing essential evidence as to the mechanisms of chemical processes The book is designed to help the reader particularly students and researchers of physical science understand the chemical kinetics mechanics and chemical reactions The selection of topics addressed and the examples tables and graphs used to illustrate them are governed to a large extent by the fact that this book is aimed primarily at physical science mainly chemistry technologists Undoubtedly this book contains must read materials for students engineers and researchers working in the chemistry and chemical kinetics area This book provides valuable insight into the mechanisms and chemical reactions It is written in concise self explanatory and informative manner

by a world class scientists in the field The Theory of Kinetics R.G. Compton,C.H. Bamford,C.F.H. Tippet†,2012-12-02 The Theory of Kinetics covers the practice and theory of kinetics and the kinetics of inorganic and organic reactions in gaseous and condensed phases and at interfaces This text is composed of five chapters and starts with a review of the kinetic characterization of complex reaction systems The succeeding chapter describes the formal and radical kinetics as well as the energy factor in chain reactions These topics are followed by a survey of the theory of the kinetics of elementary gas phase reactions and the unimolecular reaction of activated chemical species The discussion then shifts to the general properties reactions and the theory of elementary reactions in solution The last chapter examines the theory of kinetics of solid state reactions This book is of great value to physical inorganic and organic chemists **Chemical Kinetics and Dynamics** Jeffrey I. Steinfeld,Joseph Salvatore Francisco,William L. Hase,1999 This text presents a balanced presentation of the macroscopic view of empirical kinetics and the microscopic molecular viewpoint of chemical dynamics This second edition includes the latest information as well as new topics such as heterogeneous reactions in atmospheric chemistry reactant product imaging and molecular dynamics of H₂ Some Problems in Chemical Kinetics and Reactivity, Volume 1 Nikolai Nikolaevich Semenov,2017-03-14 This translation in two volumes of an introductory paper to a Symposium on Chemical Kinetics and Reactivity held in Moscow in 1954 has been enlarged and revised by the author winner of the Nobel Prize in chemistry in 1956 and one of the two or three top flight Russian physical scientists Volume 1 covers a wide range of important work and includes a survey of radical and chain reactions and a discussion of chemical changes direct mono and bi molecular processes ionic reactions heterogeneous catalysis initiation and destruction of radical chains on solid surfaces Originally published in 1958 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 Chemical Kinetics and Reaction Mechanisms James H. Espenson,1995 Covering chemical kinetics from the working chemist s point of view this book aims to prepare chemists to devise experiments to test different hypothesis A number of examples from research literature have been included **How Chemical Reactions Occur** Edward L. King,1963 Introduction to Chemical Kinetics Gordon Skinner,2012-12-02 Introduction to Chemical Kinetics is a compilation of lecture notes of the author about principles concepts and theories in chemical kinetics The book tackles the nature of chemical kinetics reaction rates and order and thermodynamic consistency of rate laws The effects of temperature on kinetics prediction of reaction rates gas phase reactions and controlled reactions are also discussed The text also explains the reactions catalyzed by enzymes reactions in solids and heterogenous systems oxidation of metals catalysis of reactions by solids and methods for different reaction rates The monograph is recommended

as a textbook for undergraduate students in chemistry who are currently taking up kinetics as it is an easily understood and concise book that can also be used as reference Principles of Chemical Kinetics J. E. House,1997 All fields of chemistry involve the principles of chemical kinetics Important reactions take place in gases solutions and solids This book provides the necessary tools for studying and understanding interactions in all of these phases Derivations are presented in detail to make them intelligible to readers whose background in mathematics is not extensive BOOK JACKET **Chemical Kinetics and Reaction Dynamics** Paul L. Houston,2012-10-10 DIVThis text teaches the principles underlying modern chemical kinetics in a clear direct fashion using several examples to enhance basic understanding Solutions to selected problems 2001 edition div

An Introduction to Chemical Kinetics Michel Soustelle,2013-02-07 This book is a progressive presentation of kinetics of the chemical reactions It provides complete coverage of the domain of chemical kinetics which is necessary for the various future users in the fields of Chemistry Physical Chemistry Materials Science Chemical Engineering Macromolecular Chemistry and Combustion It will help them to understand the most sophisticated knowledge of their future job area Over 15 chapters this book present the fundamentals of chemical kinetics its relations with reaction mechanisms and kinetic properties Two chapters are then devoted to experimental results and how to calculate the kinetic laws in both homogeneous and heterogeneous systems The following two chapters describe the main approximation modes to calculate these laws Three chapters are devoted to elementary steps with the various classes the principles used to write them and their modeling using the theory of the activated complex in gas and condensed phases Three chapters are devoted to the particular areas of chemical reactions chain reactions catalysis and the stoichiometric heterogeneous reactions Finally the non steady state processes of combustion and explosion are treated in the final chapter **Chemical Kinetics** Farrington Daniels,1938

Chemical Kinetics Noel Roderick Waite,1971 **Chemical Kinetics** Kenneth Antonio Connors,1990 *Chemical Kinetics The Study of Reaction Rates in Solution* Kenneth A Connors This chemical kinetics book blends physical theory phenomenology and empiricism to provide a guide to the experimental practice and interpretation of reaction kinetics in solution It is suitable for courses in chemical kinetics at the graduate and advanced undergraduate levels This book will appeal to students in physical organic chemistry physical inorganic chemistry biophysical chemistry biochemistry pharmaceutical chemistry and water chemistry all fields concerned with the rates of chemical reactions in the solution phase Principles of Chemical Kinetics Gordon G. Hammes,1978 *Principles of Chemical Kinetics*

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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**15 Chemical Kinetics Answer**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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