

Chapter 6

Rates of Chemical Reactions

Practice Problems

Problem 1

The formation reaction of ammonia is represented by the following equation:



Ammonia gas is produced at a rate of $4.0 \times 10^{-3} \text{ mol/(L}\cdot\text{s)}$.

(a) What will be the rates at which the reactants are consumed?

(b) Assume that the reaction can proceed to completion. If the reaction begins with $1.0 \times 10^2 \text{ mol}$ of $\text{N}_{2(g)}$ and $2.0 \times 10^2 \text{ mol}$ of $\text{H}_{2(g)}$, how much $\text{N}_{2(g)}$ will remain when all $\text{H}_{2(g)}$ is used up?

(c) If the reactants in (b) are placed in a 100 L reaction vessel and the reaction is allowed to proceed to completion, how long will it take?

Problem 2

For the reaction $5\text{O}_{2(g)} + 4\text{NH}_{3(g)} \rightarrow 6\text{H}_2\text{O}_{(g)} + 4\text{NO}_{(g)}$, the initial rate of production of H_2O is $2.64 \times 10^{-5} \text{ mol/(L}\cdot\text{s)}$. What is the corresponding rate of disappearance of O_2 ?

Problem 3

The rate law equation for the reaction $\text{I}_2 + (\text{C}_2\text{H}_5)_2(\text{NH})_2 \rightarrow (\text{C}_2\text{H}_5)_2\text{N}_2 + 2\text{HI}$ is given below.

$$\text{Rate} = k[(\text{C}_2\text{H}_5)_2(\text{NH})_2]$$

The initial rate of reaction is 0.250 mol/L when the concentration of $(\text{C}_2\text{H}_5)_2(\text{NH})_2$ is $30.0 \text{ mol/(L}\cdot\text{s)}$. What is the corresponding rate at which HI is formed if the initial concentration of $(\text{C}_2\text{H}_5)_2(\text{NH})_2$ is 0.150 mol/L ?

Problem 4

An organic reaction between complex molecules is represented by the following reaction.



The rate of reaction is found to obey a rate law equation. Use the rate data below to answer the questions.

Trial	Initial Concentration (mol/L)		Initial Rate mol/(L·s)
	[A]	[B]	
1	1.0	1.0	2.1×10^{-3}
2	4.0	1.0	8.3×10^{-3}
3	1.0	2.0	8.4×10^{-3}

(a) What is the overall reaction order of this reaction?

(b) Calculate the value of the rate constant.

(c) What will be the effect upon the rate of reaction if the concentrations of both A and B are doubled?

Rates Of Reaction 18 Practice Problems Worksheey

Viktor Korobov, Valery Ochkov



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Introduction to Chemistry, Laboratory Manual T. R. Dickson, 1994-12-23 Teaches chemistry by offering a dynamic provocative and relevant view of the topic and its importance to society and our daily lives Three themes are stressed throughout the text developing chemical thinking and a chemical vision learning problem solving methods and utilizing group work and discussion activities These themes involve and engage the students in their own learning processes they are challenged to be active The presentation of topics has been altered to include a new chapter which introduces the students to scientific thinking and shows that chemistry involves interesting and relevant topics The reorganization presents many core concepts in the first five chapters preparing students for later chapters In addition the author has added vignettes throughout the chapters referring to health technology the environment and society as well as to specific tools of direct use to students Holt Chemistry Ralph Thomas Myers, 2004 Teacher's Wraparound Edition: Two Biology Everyday Experience Albert Kaskel, 1994-04-19 Active Living Every Day Steven N. Blair, Andrea L. Dunn, Bess H. Marcus, Ruth Ann Carpenter, Peter Jaret, 2021 Active Living Every Day Third Edition is a behavior change strategy book intended to help the reader become more physically active It includes activities and tools within every chapter to encourage the reader to make long term changes to improve health CBSE Chapterwise Worksheets for Class 9 Gurukul, 2021-07-30 Practice Perfectly and Enhance Your CBSE Class 9th preparation with Gurukul's CBSE Chapterwise Worksheets for 2022 Examinations Our Practicebook is categorized chapterwise topicwise to provide you in depth knowledge of different concept topics and questions based on their weightage to help you perform better in the 2022 Examinations How can you Benefit from CBSE Chapterwise Worksheets for 9th Class 1 Strictly Based on the Latest Syllabus issued by CBSE 2 Includes Checkpoints basically Benchmarks for better Self Evaluation for every chapter 3 Major Subjects covered such as Science Mathematics Social Science 4 Extensive Practice with Assertion Reason Case Based MCQs Source Based Questions 5 Comprehensive Coverage of the Entire Syllabus by Experts Our Chapterwise Worksheets include Mark Yourself at the end of each worksheet where students can check their own score and provide feedback for the same Also consists of numerous tips and tools to improve problem solving techniques for any exam paper Our book can also help in providing a comprehensive overview of important topics in each subject making it easier for students to solve for the exams **Chemical Process Engineering, Volume 2** A. Kayode Coker, Rahmat Sotudeh-Gharebagh, 2022-07-20 CHEMICAL PROCESS ENGINEERING Written by one of the most prolific and respected chemical engineers in the world and his co author also a well known and respected engineer this two volume set is the new standard in the industry offering engineers and students alike the most up to date comprehensive and state of the art coverage of processes and best practices in the field today This new two volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design Useful not only for students university professors and practitioners especially process chemical

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Electrode Processes VII Viola Birss,2005 Chemical Kinetics with Mathcad and Maple Viktor Korobov,Valery Ochkov,2011-05-26 The authors explain at length the principles of chemical kinetics and approaches to computerized calculations in modern software suites mathcad and maple Mathematics is crucial in determining correlations in chemical processes and requires various numerical approaches Often significant issues with mathematical formalizations of chemical problems arise and many kinetic problems can t be solved without computers Numerous problems encountered in solving kinetics calculations with detailed descriptions of the numerical tools are given Special attention is given to electrochemical reactions which fills a gap in existing texts not covering this topic in detail The material demonstrates how these suites provide quick and precise behavior predictions for a system over time for postulated mechanisms Examples i e oscillating and non isothermal reactions help explain the use of mathcad more efficiently Also included are the results of authors own research toward effective computations

Multiple Sclerosis June Halper,Nancy Holland,2005-06-01 Education about multiple sclerosis has traditionally been medically oriented and related to disease and dysfunction In contrast this brand new second edition of the Guide continues to focus on staying well in the presence of MS a disease that while incurable can be managed The book covers a broad spectrum of topics related to MS and its effects focusing especially on the needs of those who have been living with the disease for some time Practical tips on self care are designed to promote maximum independence well being and productivity The theme of the book wellness can be described by the acronym Weighing options Eating well Living to your fullest Learning new skills Needing others Evaluating situations realistically Surviving stress and Staying responsible Contributors to the book are professionals who have a specialty or a special interest in MS Their suggestions advice and strategies come from years of experience in the field It is their hope that readers will come away with fresh ideas on how to cope with the ever changing challenges of MS

Chemistry for the Biosciences Jonathan Crowe,Tony Bradshaw,2014 Leading students through the essential concepts that are central to understanding

biological systems this text uses everyday examples and analogies to build their confidence in an often daunting subject By focusing on the key themes that unify the subject it shows how integral chemistry is to the biosciences Handbook of Cognitive-Behavior Group Therapy with Children and Adolescents Ray W. Christner,Christy A. Mulligan,2007-05-07 This Handbook offers a much needed resource of theoretical knowledge evidence based interventions and practical guidelines for professionals providing group psychotherapy to youth clients Written by leading professionals in the field of child and adolescent cognitive behavioral therapy this comprehensive volume offers readers a collection of innovative and well established approaches for group interventions with youth in a variety of treatment settings It addresses a wide range of issues not limited to assessment group member selection and specific protocols and strategies that readers can implement in their own practice Integrating theoretical and practical aspects leading experts offer their experience through case examples and vignettes suggesting guidelines for overcoming inherent treatment obstacles This Handbook provides not only a framework for delivering effective group therapy but also highlights specific problem areas and it is an invaluable reference for professionals providing therapeutic intervention to children and adolescents *Statistics* Sullivan,2003-02 Contains PHStat with Data Files CD Presents instructions on how to use Microsoft Excel to carry out selected examples and exercises Written by Beverly Dretzke University of Wisconsin Eau Claire *Software for Teaching Science* Roger Frost,1998

Buckling Up ,2003 Increasing seat belt use is one of the most effective and least costly ways of reducing the lives lost and injuries incurred on the nation s highways each year yet about one in four drivers and front seat passengers continues to ride unbuckled The Transportation Research Board in response to a congressional request for a study to examine the potential of in vehicle technologies to increase belt use formed a panel of 12 experts having expertise in the areas of automotive engineering design and regulation traffic safety and injury prevention human factors survey research methods economics and technology education and consumer interest This panel named the Committee for the Safety Belt Technology Study examined the potential benefits of technologies designed to increase belt use determined how drivers view the acceptability of the technologies and considered whether legislative or regulatory actions are necessary to enable their installation on passenger vehicles The National Highway Traffic Safety Administration NHTSA the study sponsor funded and conducted interviews and focus groups of samples of different belt user groups to learn more about the potential effectiveness and acceptability of technologies ranging from seat belt reminder systems to more aggressive interlock systems and provided the information collected to the study committee The committee also supplemented its expertise by holding its second meeting in Dearborn Michigan where it met in proprietary sessions with several of the major automobile manufacturers a key supplier and a small business inventor of a shifter interlock system to learn of planned new seat belt use technologies as well as about company data concerning their effectiveness and acceptability The committee s findings and recommendations are presented in this five chapter report Euromat 99, Microstructures, Mechanical Properties and

Processes Yves Bréchet, 2000-07-13 The relation between microstructures and mechanical properties has always been a challenge for materials science Modelling the formation properties and long term stability of microstructures is one of the most impressive and promising advances of modern materials science This book presents recent advances and challenges in this fast evolving cross disciplinary field It addresses applications of classical physical metallurgy and the need for new modelling approaches both on the analytical viewpoint and on the simulation side **EPA-600/2**, 1978 Research Reporting Series, 1978 **Livestock and the environment** M. L. Rowe, Linda Merryman, 1976 Livestock and the Environment: a Bibliography with Abstracts M. L. Rowe, Linda Merryman, 1978 **The Change Leader's Roadmap** Linda Ackerman Anderson, Dean Anderson, 2010-10-12 This is the most complete change methodology we have found anywhere Pete Fox General Manager Corporate Accounts Microsoft US In these turbulent times competent change leadership is a most coveted leadership skill and savvy change consultants are becoming trusted participants at the board table For both leaders and consultants knowing how to navigate the complexities of organization transformation is fast becoming the key to a successful career This second edition of the author's landmark book is the king of all how to books on change It provides a strategic overview of the author's proven change process methodology as well as pragmatic guidance and tools for each key step in a complex transformational change process The Change Leader's Roadmap is the most comprehensive guide available for building transformational change strategy and designing and implementing successful transformation Based on thirty years of action research with Fortune 500 companies government agencies the military and large non profit global organizations Outlines every key step in a transformational change process Provides worksheets tools case examples and assessments that you can immediately apply to all types of change efforts Includes updated information on a wealth of topics including the critical path tasks and how to use the CLR to change minds and cultures The new edition also includes new activities methods for building change capability guiding principles for change and advice for leading the human dynamics in change and creating an organizational vision This book is specifically written for leaders project managers OD practitioners change practitioners and consultants seeking greater change results

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