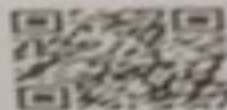


"Facts are not science — as the dictionary is not literature."
— Martin H. Fischer



CHAPTER 1

Chemical Reactions and Equations



Consider the following situations of daily life and think what happens when —

- milk is left at room temperature during summers.
- an iron towel/pan/rail is left exposed to humid atmosphere.
- grapes get fermented.
- food is cooked.
- food gets digested in our body.
- we respire.

In all the above situations, the nature and the identity of the initial substance have somewhat changed. We have already learnt about physical and chemical changes of matter in our previous classes. Whenever a chemical change occurs, we can say that a chemical reaction has taken place.

You may perhaps be wondering as to what is actually meant by a chemical reaction. How do we come to know that a chemical reaction has taken place? Let us perform some activities to find the answer to these questions.

Activity 1.1

CAUTION: This Activity needs the teacher's assistance. It would be better if students wear suitable eyeglasses.

- Clean a magnesium ribbon about 3–4 cm long by rubbing it with sandpaper.
- Hold it with a pair of tongs. Burn it using a spirit lamp or burner and collect the ash so formed in a watch glass as shown in Fig. 1.1. Burn the magnesium ribbon keeping it away as far as possible from your eyes.

- What do you observe?

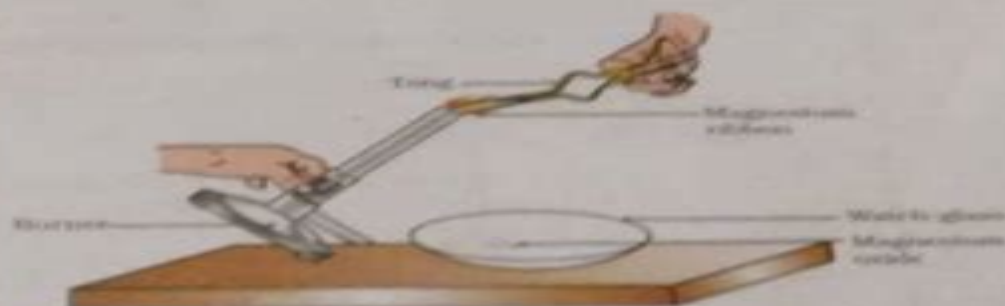


Figure 1.1
Burning of a magnesium ribbon in air and collection of magnesium oxide in a watch glass

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Jianjun Gao



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Chemical Reactions Eve Hartman, Wendy Meshbesh, 2009 An illustrated introduction to chemical reactions that explains reactions describes how to classify reactions and covers energy and chemical reactions acids and bases and other related topics and includes instructions for simple experiments a review and glossary

Chemical Engineering Computation with MATLAB® Yeong Koo Yeo, 2020-12-15 Chemical Engineering Computation with MATLAB Second Edition continues to present basic to advanced levels of problem solving techniques using MATLAB as the computation environment The Second Edition provides even more examples and problems extracted from core chemical engineering subject areas and all code is updated to MATLAB version 2020 It also includes a new chapter on computational intelligence and Offers exercises and extensive problem solving instruction and solutions for various problems Features solutions developed using fundamental principles to construct mathematical models and an equation oriented approach to generate numerical results Delivers a wealth of examples to demonstrate the implementation of various problem solving approaches and methodologies for problem formulation problem solving analysis and presentation as well as visualization and documentation of results Includes an appendix offering an introduction to MATLAB for readers unfamiliar with the program which will allow them to write their own MATLAB programs and follow the examples in the book Provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression parameter estimation in differential systems two point boundary value problems and partial differential equations and optimization This essential textbook readies engineering students researchers and professionals to be proficient in the use of MATLAB to solve sophisticated real world problems within the interdisciplinary field of chemical engineering The text features a solutions manual lecture slides and MATLAB program files

Essentials of Chemical Reaction Engineering H. Scott Fogler, 2011 Accompanying DVD ROM contains many realistic interactive simulations

Introductory Organic Chemistry and Hydrocarbons Caio Lima Firme, 2019-08-28 A novel proposal for teaching organic chemistry based on a broader and simplified use of quantum chemistry theories and notions of some statistical thermodynamic concepts aiming to enrich the learning process of the organic molecular properties and organic reactions A detailed physical chemistry approach to teach organic chemistry for undergraduate students is the main aim of this book A secondary objective is to familiarize undergraduate students with computational chemistry since most of illustrations of optimized geometries plus some topological graphs and information is from quantum chemistry outputs which will also enable students to obtain a deeper understanding of organic chemistry

Chemistry of Fossil Fuels and Biofuels Harold Schobert, 2013-01-17 Discusses the formation composition properties and processing of the principal fossil and biofuels ideal for graduate students and professionals

Reaction Engineering, Catalyst Preparation, and Kinetics Jorge Marchetti, 2021-11-22 This book serves as an introduction to the subject giving readers the tools to solve real world chemical reaction engineering problems It

features a section of fully solved examples as well as end of chapter problems It includes coverage of catalyst characterization and its impact on kinetics and reactor modeling Each chapter presents simple ideas and concepts which build towards more complex and realistic cases and situations Introduces an in depth kinetics analysis Features well developed sections on the major topics of catalysts kinetics reactor design and modeling Includes a chapter that showcases a fully worked out example detailing a typical problem that is faced when performing laboratory work Offers end of chapter problems and a solutions manual for adopting professors Aimed at advanced chemical engineering undergraduates and graduate students taking chemical reaction engineering courses as well as chemical engineering professionals this textbook provides the knowledge to tackle real problems within the industry

Reaction Rate Theory and Rare Events Baron Peters, 2017-03-22 Reaction Rate Theory and Rare Events bridges the historical gap between these subjects because the increasingly multidisciplinary nature of scientific research often requires an understanding of both reaction rate theory and the theory of other rare events The book discusses collision theory transition state theory RRKM theory catalysis diffusion limited kinetics mean first passage times Kramers theory Grote Hynes theory transition path theory non adiabatic reactions electron transfer and topics from reaction network analysis It is an essential reference for students professors and scientists who use reaction rate theory or the theory of rare events In addition the book discusses transition state search algorithms tunneling corrections transmission coefficients microkinetic models kinetic Monte Carlo transition path sampling and importance sampling methods The unified treatment in this book explains why chemical reactions and other rare events while having many common theoretical foundations often require very different computational modeling strategies Offers an integrated approach to all simulation theories and reaction network analysis a unique approach not found elsewhere Gives algorithms in pseudocode for using molecular simulation and computational chemistry methods in studies of rare events Uses graphics and explicit examples to explain concepts Includes problem sets developed and tested in a course range from pen and paper theoretical problems to computational exercises

Chemistry for the Biosciences Jonathan Crowe, Tony Bradshaw, 2010-03-25 Education In Chemistry on the first edition of Chemistry for the Biosciences

Computational Techniques for Process Simulation and Analysis Using MATLAB® Niket S. Kaisare, 2017-09-18 MATLAB has become one of the prominent languages used in research and industry and often described as the language of technical computing The focus of this book will be to highlight the use of MATLAB in technical computing or more specifically in solving problems in Process Simulations This book aims to bring a practical approach to expounding theories both numerical aspects of stability and convergence as well as linear and nonlinear analysis of systems The book is divided into three parts which are laid out with a Process Analysis viewpoint First part covers system dynamics followed by solution of linear and nonlinear equations including Differential Algebraic Equations DAE while the last part covers function approximation and optimization Intended to be an advanced level textbook for numerical methods simulation and analysis of process systems and computational

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Chemical Engineering in the Pharmaceutical Industry David J. am Ende, Mary T. am Ende, 2019-03-28 A guide to the development and manufacturing of pharmaceutical products written for professionals in the industry revised second edition The revised and updated second edition of *Chemical Engineering in the Pharmaceutical Industry* is a practical book that highlights chemistry and chemical engineering The book's regulatory quality strategies target the development and manufacturing of pharmaceutically active ingredients of pharmaceutical products The expanded second edition contains revised content with many new case studies and additional example calculations that are of interest to chemical engineers The 2nd Edition is divided into two separate books 1 Active Pharmaceutical Ingredients API's and 2 Drug Product Design Development and Modeling The active pharmaceutical ingredients book puts the focus on the chemistry chemical engineering and unit operations specific to development and manufacturing of the active ingredients of the pharmaceutical product The drug substance operations section includes information on chemical reactions mixing distillations extractions crystallizations filtration drying and wet and dry milling In addition the book includes many applications of process modeling and modern software tools that are geared toward batch scale and continuous drug substance pharmaceutical operations This updated second edition Contains 30 new chapters or revised chapters specific to API covering topics including manufacturing quality by design computational approaches continuous manufacturing crystallization and final form process safety Expanded topics of scale up continuous processing applications of thermodynamics and thermodynamic modeling filtration and drying Presents updated and expanded example calculations Includes contributions from noted experts in the field Written for pharmaceutical engineers chemical engineers undergraduate and graduate students and professionals in the field of pharmaceutical sciences and manufacturing the second edition of *Chemical Engineering in the Pharmaceutical Industry* focuses on the development and chemical engineering as well as operations specific to the design formulation and manufacture of drug substance and products

Handbook of Hydrogen Energy S.A. Sherif, D. Yogi Goswami, E.K. (Lee) Stefanakos, Aldo Steinfeld, 2014-07-29 Can hydrogen and electricity supply all of the world's energy needs *Handbook of Hydrogen Energy* thoroughly explores the notion of a hydrogen economy and addresses this question The handbook considers hydrogen and electricity as a permanent energy system and provides factual information based on science The text focuses on a large cross section of

Longman Science Chemistry 10 Kohli Nitin, 2008-09 **Academic Writing for International Students of Science** Jane Bottomley, 2021-10-18 This revised and updated second edition is an accessible companion designed to help science and

technology students develop the knowledge skills and strategies needed to produce clear and coherent academic writing in their university assignments Using authentic texts to explore the nature of scientific writing the book covers key areas such as scientific style effective sentence and paragraph structure and coherence in texts and arguments Throughout the book a range of tasks offers the opportunity to put theory into practice The explorative tasks allow you to see how language works in a real scientific context practice and review tasks consolidate learning and help you to develop your own writing skills and reflective tasks encourage you to think about your own knowledge and experience and bring this to bear on your own writing journey at university Key features of the new edition include Updated content and additional tasks throughout New chapters covering writing in the sciences and writing at university The introduction of reflective tasks Up to date examples of authentic scientific writing Clear engaging and easy to use this is an invaluable tool for the busy science or technology student looking to improve their writing and reach their full academic potential

A TEXTBOOK OF PHARMACEUTICAL ORGANIC CHEMISTRY-II Mr. Shivanand Kolageri, Mr. Sandeep Umarani, Mrs. Kavita Nesur, Mr. Pawar Aravind Rev, A

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Advanced Distillation Technologies Anton A. Kiss, 2013-02-26 Distillation has historically been the main method for separating mixtures in the chemical process industry However despite the flexibility and widespread use of distillation processes they still remain extremely energy inefficient Increased optimization and novel distillation concepts can deliver substantial benefits not just in terms of significantly lower energy use but also in reducing capital investment and improving eco efficiency While likely to remain the separation technology of choice for the next few decades there is no doubt that distillation technologies need to make radical changes in order to meet the demands of the energy conscious society Advanced Distillation Technologies Design Control and Applications gives a deep and broad insight into integrated separations using non conventional arrangements including both current and upcoming process intensification technologies It includes Key concepts in distillation technology Principles of design control sizing and economics of distillation Dividing wall column DWC design configurations optimal operation and energy efficient and advanced control DWC applications in ternary separations azeotropic extractive and reactive distillation

Heat integrated distillation column HIDiC design equipment and configurations Heat pump assisted applications MVR TVR AHP CHRP TAHP and others Cyclic distillation technology concepts modeling approach design and control issues Reactive distillation fundamentals equipment applications feasibility scheme Results of rigorous simulations in Mathworks Matlab Simulink Aspen Plus Dynamics and Custom Modeler Containing abundant examples and industrial case studies this is a unique resource that tackles the most advanced distillation technologies all the way from the conceptual design to practical implementation The author of Advanced Distillation Technologies Dr Ir Anton A Kiss has been awarded the Hoogewerff Jongerenprijs 2013 Find out more website in Dutch *Handbook of Advanced Ceramics* ,2013-04-11 This new handbook will be an essential resource for ceramicists It includes contributions from leading researchers around the world and includes sections on Basic Science of Advanced Ceramics Functional Ceramics electro ceramics and optoelectro ceramics and engineering ceramics Contributions from more than 50 leading researchers from around the world Covers basic science of advanced ceramics functional ceramics electro ceramics and optoelectro ceramics and engineering ceramics Approximately 750 illustrations Fundamentals of Molecular Structural Biology Subrata Pal,2019-08-15 Fundamentals of Molecular Structural Biology reviews the mathematical and physical foundations of molecular structural biology Based on these fundamental concepts it then describes molecular structure and explains basic genetic mechanisms Given the increasingly interdisciplinary nature of research early career researchers and those shifting into an adjacent field often require a fundamentals book to get them up to speed on the foundations of a particular field This book fills that niche **Inorganic Chemistry for Geochemistry and Environmental Sciences** George W. Luther, III,2016-05-17 Inorganic Chemistry for Geochemistry and Environmental Sciences Fundamentals and Applications discusses the structure bonding and reactivity of molecules and solids of environmental interest bringing the reactivity of non metals and metals to inorganic chemists geochemists and environmental chemists from diverse fields Understanding the principles of inorganic chemistry including chemical bonding frontier molecular orbital theory electron transfer processes formation of nano particles transition metal ligand complexes metal catalysis and more are essential to describe earth processes over time scales ranging from 1 nanosec to 1 Gigayr Throughout the book fundamental chemical principles are illustrated with relevant examples from geochemistry environmental and marine chemistry allowing students to better understand environmental and geochemical processes at the molecular level Topics covered include Thermodynamics and kinetics of redox reactions Atomic structure Symmetry Covalent bonding and bonding in solids and nanoparticles Frontier Molecular Orbital Theory Acids and bases Basics of transition metal chemistry including Chemical reactivity of materials of geochemical and environmental interest Supplementary material is provided online including PowerPoint slides problem sets and solutions Inorganic Chemistry for Geochemistry and Environmental Sciences is a rapid assimilation textbook for those studying and working in areas of geochemistry inorganic chemistry and environmental chemistry wishing to enhance their understanding of environmental processes from the

molecular level to the global level **Photo- and Electrochemical Water Treatment** Halan Prakash,Rita S Dhodapkar,Kevin McGuigan,2022-12-21 Globally 2 1 billion people live without access to safe water and about 159 million people collect their drinking water directly from surface water sources This issue is particularly prominent in water stressed areas such as India which has a rural population of around 700 million 63 million of whom do not have access to clean water Contaminants of Emerging Concern CECs of both a chemical and biological nature are increasingly being detected in wastewater effluents around the world Chemical CECs include pollutants such as pharmaceuticals and personal care products pesticides hormones and endocrine disruptors and biological CECs include antibiotic resistant bacteria pathogenic protozoans and viruses New technologies to remove the contaminants from water are urgently needed and photochemical approaches offer an exciting array of possibilities Covering chemical analysis molecular biology methods and computational approaches important for the elucidation of mechanisms and evaluation of photochemical processes this book presents advanced photochemical processes for the removal of CECs from water Readers will find chapters on advanced photochemical treatment prototypes and pilot plants and discussions on translation from lab to field scale implementation Examples include highly transparent materials integrated membranes adsorbents and photocatalysts for enhancing the photochemical processes by direct sunlight induced reactions photo Fenton and photo electrochemical reactions Discussing both the advantages and disadvantages of these technologies this book is a great resource both for academics researching photocatalytic processes and for water treatment professionals Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Kirk-Othmer,2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field

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