

Chemical Reactions • Review and Reinforce

Describing Chemical Reactions

Understanding Main Ideas

Balance the equations on the lines below. State whether the reaction is a synthesis, decomposition, or replacement reaction.

Given Equation	Balanced Equation	Type of Reaction
1. $\text{FeS} + \text{HCl} \rightarrow \text{FeCl}_2 + \text{H}_2\text{S}$	a.	b.
2. $\text{Na} + \text{F}_2 \rightarrow \text{NaF}$	a.	b.
3. $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$	a.	b.

Answer questions 4 and 5 on a separate sheet of paper.

- Describe in words the chemical composition of the molecules involved and the reaction represented by the equation: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
- Use the principle of conservation of mass to explain why the equation in question 4 is balanced.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

_____ 6. chemical equation	a. substance present after a reaction
_____ 7. decomposition reaction	b. reaction in which substances combine to form a more complex compound
_____ 8. coefficient	c. uses symbols and formulas to show chemical reactions
_____ 9. product	d. reaction in which one element replaces another in a compound
_____ 10. reactant	e. substance present before a reaction
_____ 11. conservation of mass	f. number telling how many molecules of a substance are involved in a chemical reaction
_____ 12. synthesis reaction	g. reaction in which compounds are broken down into simpler products
_____ 13. replacement reaction	h. principle that states that matter is not created or destroyed during a chemical reaction

Section 2 Describing Chemical Reactions Review And Reinforce

Leslie R. Rudnick



Section 2 Describing Chemical Reactions Review And Reinforce:

Prentice Hall Chemistry, 2000 *Chemical Matter* Prentice-Hall Staff, 1994 Authorized teaching resource in Alberta for senior high science 14 24 1995 2004 Advanced Solid Catalysts for Renewable Energy Production González-Cortés, Sergio, Imbert, Freddy Emilio, 2018-01-19 In recent years the replacement of non renewable crude oil by renewable sources has been addressed particularly in developed countries Its main driving force has been the increasing demand and limited reserves of fossil fuels the greenhouse gas effect and the need of securing energy supplies Advanced Solid Catalysts for Renewable Energy Production provides emerging research on renewable energy production catalysts and environmental effects of increased productivity While highlighting the challenges for future generations to develop in the sustainable energy age readers will learn the importance of new approaches not only for synthesizing more active and selective nano catalysts but also for designing innovative catalytic processes that can eventually meet the growing energy efficiency demand and overcome the environmental issues This book is an important resource for academicians university researchers technology developers and graduate level students Holt Chemistry Ralph Thomas Myers, 2004 **Glencoe Science** McGraw-Hill Staff, 2001-06 *Distillation: Equipment and Processes* Andrzej Gorak, Zarko Olujic, 2014-06-24 Distillation Equipment and Processes winner of the 2015 PROSE Award in Chemistry Physics from the Association of American Publishers is a single source of authoritative information on all aspects of the theory and practice of modern distillation suitable for advanced students and professionals working in a laboratory industrial plants or a managerial capacity It addresses the most important and current research on industrial distillation including all steps in process design feasibility study modeling and experimental validation together with operation and control aspects This volume features an extra focus on distillation equipment and processes Winner of the 2015 PROSE Award in Chemistry Physics from the Association of American Publishers Practical information on the newest development written by recognized experts Coverage of a huge range of laboratory and industrial distillation approaches Extensive references for each chapter facilitates further study *Chemistry and Pharmacology of Naturally Occurring Bioactive Compounds* Goutam Brahmachari, 2013-02-20 Natural products play crucial roles in modern drug development and constitute a prolific source of novel lead compounds or pharmacophores for ongoing drug discovery programs Chemistry and Pharmacology of Naturally Occurring Bioactive Compounds presents cutting edge research in the chemistry of bioactive natural products and demonstrates how natur **Guidelines for Inherently Safer Chemical Processes** CCPS (Center for Chemical Process Safety), 2019-10-16 Since the publication of the second edition several United States jurisdictions have mandated consideration of inherently safer design for certain facilities Notable examples are the inherently safer technology IST review requirement in the New Jersey Toxic Chemical Prevention Act TCPA and the Inherently Safer Systems Analysis ISSA required by the Contra Costa County California Industrial Safety Ordinance More recently similar requirements have been proposed at the U S Federal level in the pending

EPA Risk Management Plan RMP revisions Since the concept of inherently safer design applies globally with its origins in the United Kingdom the book will apply globally The new edition builds on the same philosophy as the first two editions but further clarifies the concept with recent research practitioner observations added examples and industry methods and discussions of security and regulatory issues Inherently Safer Chemical Processes presents a holistic approach to making the development manufacture and use of chemicals safer The main goal of this book is to help guide the future state of chemical process evolution by illustrating and emphasizing the merits of integrating inherently safer design process related research development and design into a comprehensive process that balances safety capital and environmental concerns throughout the life cycle of the process It discusses strategies of how to substitute more benign chemicals at the development stage minimize risk in the transportation of chemicals use safer processing methods at the manufacturing stage and decommission a manufacturing plant so that what is left behind does not endanger the public or environment **Focus on Physical**

Science Annette Miele Saturnelli,1989 *Structured Document Image Analysis* Henry S. Baird,Horst Bunke,Kazuhiko Yamamoto,2012-12-06 Document image analysis is the automatic computer interpretation of images of printed and handwritten documents including text drawings maps music scores etc Research in this field supports a rapidly growing international industry This is the first book to offer a broad selection of state of the art research papers including authoritative critical surveys of the literature and parallel studies of the architecture of complete high performance printed document reading systems A unique feature is the extended section on music notation an ideal vehicle for international sharing of basic research Also the collection includes important new work on line drawings handwriting character and symbol recognition and basic methodological issues The IAPR 1990 Workshop on Syntactic and Structural Pattern Recognition is summarized including the reports of its expert working groups whose debates provide a fascinating perspective on the field The book is an excellent text for a first year graduate seminar in document image analysis and is likely to remain a standard reference in the field for years **Recent Advances in Pyrolysis** Hassan Al- Haj

Ibrahim,2020-01-22 Pyrolysis is an irreversible thermochemical treatment process of materials at elevated temperatures in an inert atmosphere It is basically a carbonisation process where an organic material is decomposed to produce a solid residue with high or higher carbon content and some volatile products The decomposition reactions are accompanied in general with polymerisation and isomerisation reactions The end products of pyrolysis can be controlled by optimizing pyrolysis parameters such as temperature and residence time Pyrolysis is used heavily in the chemical industry to produce many forms of carbon and other chemicals from petroleum coal wood oil shale biomass or organic waste materials and it is the basis of several methods for producing fuel from biomass Pyrolysis also is the process of conversion of buried organic matter into fossil fuels *Anatomy & Physiology (includes A&P Online course) E-Book* Kevin T. Patton,2018-01-31 *Anatomy Physiology includes A P Online course E Book* Scientific and Technical Aerospace Reports ,1994 Federal Register

,2001 **Lubricant Additives** Leslie R. Rudnick,2017-07-12 This indispensable book describes lubricant additives their synthesis chemistry and mode of action All important areas of application are covered detailing which lubricants are needed for a particular application Laboratory and field performance data for each application is provided and the design of cost effective environmentally friendly technologies is fully explored This edition includes new chapters on chlorohydrocarbons foaming chemistry and physics antifoams for nonaqueous lubricants hydrogenated styrene diene viscosity modifiers alkylated aromatics and the impact of REACH and GHS on the lubricant industry **QRS for BDS 2nd Year-E Book** Jyotsna

Rao,2020-06-13 Quick Review Series for BDS 2nd Year is an extremely exam oriented book The book contains a collection of the last 25 year s questions of Dental Materials General Pathology Microbiology Pharmacology in accordance with the BDS 2nd year syllabus The book will serve the requirements of BDS 2nd year students to prepare for their examinations and help PG aspirants in quick review of important topics Unique collection of last 25 years solved questions asked in major university examinations across India Simple well illustrated lucid in content and style in two color format Book contains numerous flowcharts and tables for easier understanding Perfectly segregated into 6 sections Dental Materials General Pathology Microbiology Pharmacology Self assessment Questions and Previous Years Question Bank Self assessment section of this book includes key points to remember MCQs with answers and viva questions for practical exam preparation Sample question papers on all the subjects Thoroughly revised and updated with latest questions from all major universities across India Addition of new MCQs and viva questions for practical exam preparation Index containing important points

Engineering and Mining Journal ,1907 **Practical Aspects of Trapped Ion Mass Spectrometry, Volume V**

Raymond E. March,John F.J Todd,2016-04-19 Widely used in medical research pharmaceutical and fine chemicals industries biological and physical sciences and security and environmental agencies mass spectrometry techniques are continually under development In Practical Aspects of Trapped Ion Mass Spectrometry Volume V Applications of Ion Trapping Devices an international panel of aut *Squamous Cell Carcinoma* Hamid Daaboul,2020-03-18 With the support of multinational specialists each with different background and separate field of expertise in oncology this book had the occasion to emerge and to offer physicians researchers and academics efficient well organized and updated scientific information related to the characteristics and treatment modalities of squamous cell carcinoma It provided in depth information regarding the comprehension of the molecular interaction of signalling pathways and new phenotypes that might result and lead to further cell proliferation and metastases It also emphasized on the management and individualization of treatment strategies in different types of SCC applying molecular profiling and approved protocols in order to identify new treatment opportunities This book also discussed the potential therapeutic modalities that might arise upon understanding and exploring the role of key regulatory proteins that govern the process of cutaneous SCC progression And Lastly it underlined the molecular aberrations present in SCC of different organs and the possibility of emerging new therapeutic drugs by targeting these

abnormalities It is really an innovative record that combined novel information from various medical sources and mixed it to become unified in its scientific profit *Meeting the Standards in Secondary Science* Lynn D. Newton, 2005-03-25 This book provides the subject knowledge and the pedagogical knowledge needed to teach science in the secondary school Includes support activities and information on professional development for secondary teachers

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