



Name: _____

Date: _____

Student Exploration: Stoichiometry

Vocabulary: Avogadro's number, balanced equation, cancel, coefficient, conversion factor, dimensional analysis, formula mass, molar mass, mole, molecular mass, stoichiometry

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A 250 mL glass of orange juice contains 22 grams of sugar. How much sugar is in a two-liter (2,000 mL) bottle of orange juice? _____
2. It requires two sticks of butter to make a batch of 20 cookies. How much butter will it take to make 150 cookies? _____

Gizmo Warm-up

Just as a cook follows a recipe to decide how much of each ingredient to add, a chemist uses **stoichiometry** to determine the amounts of substances involved in chemical reactions. The *Stoichiometry Gizmo* allows you to try your hand at figuring out the amounts of reactants and products that take part in a chemical reaction.

To begin, check that this equation is shown:



1. Look at the **coefficients** (such as the "3" in 3CO) in front of each substance in the equation. The coefficients tell you how many molecules or atoms take part in a chemical reaction. In the spaces below, list the number of each molecule or atom in the equation:

 Fe_2O_3 _____

CO _____

Fe _____

 CO_2 _____

2. In a **balanced equation**, the same number of each kind of atom is shown on each side of the equation. Calculate the number of iron (Fe), oxygen (O), and carbon atoms (C).

Reactants

Iron: _____

Oxygen: _____

Carbon: _____

Products

Iron: _____

Oxygen: _____

Carbon: _____

Based on these values, is the equation balanced? _____

New equation



New question

How many moles of carbon monoxide (CO) are required to react completely with 1.75 moles of iron (III) oxide (Fe_2O_3)?

Problems solved: 0



Self Exploration Stoichiometry

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Self Exploration Stoichiometry:

Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH_4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

The Cycling of Biogenic Elements and Their Microbial Transformations in Marine Ecosystems Feng Chen, Junfu Dong, Li Jianlon, 2024-12-11 With global climate change and the deterioration of the marine environment the biogeochemical processes of the main biogenic elements in the ocean have received considerable attention The spatiotemporal distribution patterns migration and transformation processes of marine biogenic elements as well as the responses to environmental factors such as global warming atmospheric sedimentation eutrophication ocean acidification and hypoxia have attracted widespread attention Microorganisms are the main drivers of the biogenic factor cycle Climate change and the deterioration of the marine environment have profoundly affected the structure and function of microbial communities leading to changes in the biogenic factor cycle mediated by microorganisms and changing the position and role of the oceans in the global biogenic factor cycle and climate change

Energy Research Abstracts, 1989 **Teaching Chemistry in Higher Education** Michael Seery, Claire Mc Donnell, 2019-07-01 Teaching Chemistry in Higher Education celebrates the contributions of Professor Tina Overton to the scholarship and practice of teaching and learning in chemistry education Leading educators in United Kingdom Ireland and Australia three countries where Tina has had enormous impact and influence have contributed chapters on innovative approaches that are well established in their own practice Each chapter introduces the key education literature underpinning the approach being described Rationales are discussed in the context of attributes and learning outcomes desirable in modern chemistry curricula True to Tina's personal philosophy chapters offer pragmatic and useful guidance on the implementation of innovative teaching approaches drawing from the authors experience of their own practice and evaluations of their implementation Each chapter also offers key guidance points for implementation in readers own settings so as to maximise their adaptability Chapters are supplemented with further reading and supplementary materials on the book's website overtonfestschrift.wordpress.com Chapter topics include innovative approaches in facilitating group work problem solving context and problem based learning embedding transferable skills and laboratory education all themes relating to the scholarly interests of Professor Tina Overton About the Editors Michael Seery is Professor of Chemistry Education at the

University of Edinburgh and is Editor of Chemistry Education Research and Practice Claire Mc Donnell is Assistant Head of School of Chemical and Pharmaceutical Sciences at Technological University Dublin Cover Art Christopher Armstrong University of Hull

The Word and the World Michael Mulkay, 2024-02-09 First published in 1985 The Word and the World is a significant empirically based contribution to the sociological analysis of scientists discourse and scientific culture It also offers a radical departure from established forms of sociological discourse which has far reaching implications for all areas of sociological study The central aim of this book is to widen the range of textual forms used in empirical sociological research and thereby to increase sociologists ability to furnish interesting valid and practically useful conclusions The unusual textual forms employed for the purposes of sociological analysis are the play the investigative inquiry the participant analyst dialogue and the parody One of the main substantive topics that provides the material for these explorations in form is the scientific debate This book will be of interest to students of sociology rhetoric linguistics and science

Complex Ecology Charles G. Curtin, Timothy F. H. Allen, 2018-05-31 Research papers from the end of twentieth century have been assembled alongside expert commentary for the first collected volume on complexity based ecology

Scientific and Technical Aerospace Reports, 1991

G-Protein-Coupled Receptor Dimers Katharine Herrick-Davis, Graeme Milligan, Giuseppe Di Giovanni, 2017-08-31 G protein coupled receptors GPCRs are believed to be the largest family of membrane proteins involved in signal transduction and cellular responses They dimerize form a pair of macromolecules with a wide variety of other receptors The proposed book will provide a comprehensive overview of GPCR dimers starting with a historical perspective and including basic information about the different dimers how they synthesize their signaling properties and the many diverse physiological processes in which they are involved In addition to presenting information about healthy GPCR dimer activity the book will also include a section on their pathology and therapeutic potentials

Intelligent Tutoring Systems Mitsuru Ikeda, Kevin Ashlay, Tak-Wai Chan, 2006-06-09 This book constitutes the refereed proceedings of the 8th International Conference on Intelligent Tutoring Systems ITS 2006 held in Jhongli Taiwan June 2006 The book presents 67 revised full papers and 40 poster papers together with abstracts of 6 keynote talks organized in topical sections on assessment authoring tools bayesian reasoning and decision theoretic approaches case based and analogical reasoning cognitive models collaborative learning e learning and web based intelligent tutoring systems and more

High Performance Computing in Science and Engineering '13 Wolfgang E. Nagel, Dietmar H. Kröner, Michael M. Resch, 2013-12-12 This book presents the state of the art in simulation on supercomputers Leading researchers present results achieved on systems of the High Performance Computing Center Stuttgart HLRS for the year 2013 The reports cover all fields of computational science and engineering ranging from CFD via computational physics and chemistry to computer science with a special emphasis on industrially relevant applications Presenting results of one of Europe s leading systems this volume covers a wide variety of applications that deliver a high level of sustained performance The book covers the main methods in high performance

computing Its outstanding results in achieving highest performance for production codes are of particular interest for both the scientist and the engineer The book comes with a wealth of coloured illustrations and tables of results

The Molecular Basis of Programmed Cell Death and Neuroinflammation in Neurodegenerative Diseases Ramkumar Mathur, Chetna Soni, Antariksh Tyagi, Xusheng Wang, 2024-01-25 Age related neurodegenerative diseases such as Alzheimer's disease and Parkinson's disease are characterized by progressive neuroinflammation as well as neuronal degeneration Apoptosis, necrosis and autophagy are all types of programmed cell death that are morphologically distinct from one another Over the last decade extensive research has been conducted on necroptosis resulting in a better understanding of its molecular underpinnings and role in neurodegenerative diseases A later study investigates the processes of apoptosis and necroptosis as well as their roles in the activation of inflammatory immune responses Although there is a distinct mode of cell death with distinct morphological characteristics its identification and implications in neurological diseases are still unknown Interestingly emerging evidence has established a direct link between epigenetic and posttranslational modifications and neurodegenerative disease Using epigenetic and proteomic methods researchers uncovered genes and proteins that may play a function in the area of neuroinflammation a role that has hitherto been overlooked New pharmacological targets and therapeutic options for neurodegenerative diseases are being investigated in order to gain a better understanding of the disease's origins and progression by using neuronal death and neuroinflammation models that are associated with epigenetic changes

Supramolecular Assemblies Based on Electrostatic Interactions M. Ali Aboudzadeh, Antonio Frontera, 2022-05-21 This volume presents recent advances and current knowledge in the field of supramolecular assemblies based on electrostatic interactions The flexibility and simplicity of constructing assemblies is explained via several examples illustrations figures case studies and historical perspectives Moreover as there is an increasing demand for the use of theoretical and computational models of the interaction strengths for assisting with the experimental studies one chapter specifically focuses on the modelling of supramolecular assemblies Finally various aspects of the recent advances of the field as well as potential future opportunities are discussed with the goal being to stimulate critical discussions among the community and to encourage further discovery This volume aims to inspire and guide fellow scientists and students working in this field and thus it provides a great tool for all researchers graduates and professionals specializing on the topic

The Integration of Process Design and Control Panos Seferlis, Michael C. Georgiadis, 2004-05-06 Traditionally process design and control system design are performed sequentially It is only recently displayed that a simultaneous approach to the design and control leads to significant economic benefits and improved dynamic performance during plant operation Extensive research in issues such as interactions of design and control analysis and design of plant wide control systems integrated methods for design and control has resulted in impressive advances and significant new technologies that have enriched the variety of instruments available for the design engineer in her endeavour to design and operate new processes The field of

integrated process design and control has reached a maturity level that mingles the best from process knowledge and understanding and control theory on one side with the best from numerical analysis and optimisation on the other Direct implementation of integrated methods should soon become the mainstream design procedure Within this context The Integration of Process Design and Control bringing together the developments in a variety of topics related to the integrated design and control will be a real asset for design engineers practitioners and researchers Although the individual chapters reach a depth of analysis close to the frontier of current research status the structure of the book and the autonomous nature of the chapters make the book suitable for a newcomer in the area The book comprises four distinct parts Part A Process characterization and controllability analysis Part B Integrated process design and control Methods Part C Plant wide interactions of design and control Part D Integrated process design and control Extensions By the end of the book the reader will have developed a commanding comprehension of the main aspects of integrated design and control the ability to critically assess the key characteristics and elements related to the interactions between design and control and the capacity to implement the new technology in practice This book brings together the latest developments in a variety of topics related to integrated design and control It is a valuable asset for design engineers practitioners and researchers The structure of the book and the nature of its chapters also make it suitable for a newcomer to the field Medical Physiology E-Book Walter F. Boron, Emile L. Boulpaep, 2016-03-29 For a comprehensive understanding of human physiology from molecules to systems turn to the latest edition of Medical Physiology This updated textbook is known for its unparalleled depth of information equipping students with a solid foundation for a future in medicine and healthcare and providing clinical and research professionals with a reliable go to reference Complex concepts are presented in a clear concise and logically organized format to further facilitate understanding and retention Clear didactic illustrations visually present processes in a clear concise manner that is easy to understand Intuitive organization and consistent writing style facilitates navigation and comprehension Takes a strong molecular and cellular approach that relates these concepts to human physiology and disease Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the complete text with thorough hyperlinking images 10 animations and copious linkout notes prepared by the Editors An increased number of clinical correlations provides a better understanding of the practical applications of physiology in medicine Highlights new breakthroughs in molecular and cellular processes such as the role of epigenetics necroptosis and ion channels in physiologic processes to give insights into human development growth and disease Several new authors offer fresh perspectives in many key sections of the text and meticulous editing makes this multi authored resource read with one unified voice **Proceedings of the Workshop on Microtechnologies and Applications to Space Systems** ,1993 *Dynamic Covalent Chemistry* Wei Zhang, Yinghua Jin, 2017-09-06 The first and only exhaustive review of the theory thermodynamic fundamentals mechanisms and design principles of dynamic covalent systems Dynamic

Covalent Chemistry Principles Reactions and Applications presents a comprehensive review of the theory thermodynamic fundamentals mechanisms and design principles of dynamic covalent systems It features contributions from a team of international scientists grouped into three main sections covering the principles of dynamic covalent chemistry types of dynamic covalent chemical reactions and the latest applications of dynamic covalent chemistry DCvC across an array of fields The past decade has seen tremendous progress in DCvC research and industrial applications The great synthetic power and reversible nature of this chemistry has enabled the development of a variety of functional molecular systems and materials for a broad range of applications in organic synthesis materials development nanotechnology drug discovery and biotechnology Yet until now there have been no authoritative references devoted exclusively to this powerful synthetic tool its current applications and the most promising directions for future development Dynamic Covalent Chemistry Principles Reactions and Applications fills the yawning gap in the world literature with comprehensive coverage of The energy landscape the importance of reversibility enthalpy vs entropy and reaction kinetics Single type multi type and non covalent reactions with a focus on the advantages and disadvantages of each reaction type Dynamic covalent assembly of discrete molecular architectures responsive polymer synthesis and drug discovery Important emerging applications of dynamic covalent chemistry in nanotechnology including both material and bio oriented directions Real world examples describing a wide range of industrial applications for organic synthesis functional materials development nanotechnology drug delivery and more Dynamic Covalent Chemistry Principles Reactions and Applications is must reading for researchers and chemists working in dynamic covalent chemistry and supramolecular chemistry It will also be of value to academic researchers and advanced students interested in applying the principles of DCvC in organic synthesis functional materials development nanotechnology drug discovery and chemical biology

Fossil Energy Update, 1977 **Materials Sciences Programs** United States. Department of Energy. Division of Materials Sciences, 1992 **Diffusion in Ceramics** Joshua Pelleg, 2015-08-20 This textbook provides an introduction to changes that occur in solids such as ceramics mainly at high temperatures which are diffusion controlled as well as presenting research data Such changes are related to the kinetics of various reactions such as precipitation oxidation and phase transformations but are also related to some mechanical changes such as creep The book is composed of two parts beginning with a look at the basics of diffusion according to Fick's Laws Solutions of Fick's second law for constant D diffusion in grain boundaries and dislocations are presented along with a look at the atomistic approach for the random motion of atoms In the second part the author discusses diffusion in several technologically important ceramics The ceramics selected are monolithic single phase ones including Al_2O_3 SiC MgO ZrO_2 and Si_3N_4 Of these three refer to oxide ceramics alumina magnesia and zirconia Carbide based ceramics are represented by the technologically very important Si carbide and nitride based ceramics are represented by Si nitride which has been important in high temperature ceramics and gas turbine applications The author presents a clear concise and relatively

comprehensive treatment of diffusion in ceramics for use by those at an advanced undergraduate level and beyond It supports understanding of the basic behavior of materials and how to relate observed physical properties to microscopic understanding The book also provides researchers with a handy collation of data relating to diffusion in ceramics and supports a fundamental understanding of atomic movements

Wide-band-gap Semiconductors C.G. Van de Walle, 2012-12-02

Wide band gap semiconductors have been a research topic for many decades However it is only in recent years that the promise for technological applications came to be realized simultaneously an upsurge of experimental and theoretical activity in the field has been witnessed Semiconductors with wide band gaps exhibit unique electronic and optical properties Their low intrinsic carrier concentrations and high breakdown voltage allow high temperature and high power applications diamond SiC etc The short wavelength of band to band transitions allows emission in the green blue or even UV region of the spectrum ZnSe GaN etc In addition many of these materials have favorable mechanical and thermal characteristics These proceedings reflect the exciting progress made in this field Successful p type doping of ZnSe has recently led to the fabrication of blue green injection lasers in ZnSe applications of short wavelength light emitting devices range from color displays to optical storage In SiC advances in growth techniques for bulk as well as epitaxial material have made the commercial production of high temperature and high frequency devices possible For GaN refinement of growth procedures and new ways of obtaining doped material have resulted in blue light emitting diodes and opened the road to the development of laser diodes Finally while the quality of artificial diamond is not yet high enough for electronic applications the promise it holds in terms of unique material properties is encouraging intense activity in the field This volume contains contributions from recognized experts presently working on different material systems in the field The papers cover the theoretical experimental and application oriented aspects of this exciting topic

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