

CHEMISTRY

2014

Time: 30 Minutes

Max. Marks: 17

SECTION "A" (MULTIPLE CHOICE QUESTIONS)

1. Choose the correct answer for each from the given options: (17)

- (1) The branch of Chemistry which deals with the emission of radiations from nuclei is called:
(a) Organic Chemistry (b) Inorganic Chemistry
(c) Nuclear Chemistry (d) Physical Chemistry
- (2) Molecular mass expressed in grams is called:
(a) Atomic mass (b) Molar mass
(c) Formula mass (d) Equivalent mass
- (3) Which one of the following elements has its electronic configuration $K^2L^8M^2$?
(a) Calcium (Ca) (b) Magnesium (Mg)
(c) Neon (Ne) (d) Sodium (Na)
- (4) It has the highest value of electro negativity:
(a) Flourine (b) Chlorine (c) Bromine (d) Iodine
- (5) This bond is also called electrovalent bond:
(a) Covalent bond (b) Ionic bond
(c) Polar bond (d) Hydrogen bond
- (6) The state of matter, having definite shape and volume is known as:
(a) Solid (b) Liquid (c) gas (d) Plasma
- (7) If 0.4 is the mole fraction of solute, the mole fraction of solvent would be: (a) 0.1 (b) 0.6 (c) 0.9 (d) 1.0
- (8) Which one of the following is an electrolyte?
(a) Petrol (b) Ethyl Alcohol (c) Benzene (d) Sodium Chloride
- (9) The pH value of distilled water is:
(a) 1 (b) 4 (c) 7 (d) 14
- (10) It is an exothermic reaction:
(a) Combustion (b) Decomposition
(c) Photosynthesis (d) Fusion
- (11) It is called Ordinary Hydrogen:
(a) Nascent Hydrogen (b) Protium
(c) Deuterium (d) Tritium
- (12) Kaolin (China Clay) is used to make:
(a) Crockery (b) Glass (c) Ceramics (d) Asbestos
- (13) The air we breathe in, usually contains the highest proportion of:
(a) Hydrogen (b) Nitrogen (c) Oxygen (d) Carbon dioxide
- (14) Chemically strong acid is:
(a) Acetic acid (b) Nitric acid

Empa Paper Chemistry 2014

J.C. Roberts



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Light Metals 2014 John Grandfield, 2016-12-23 The Light Metals symposia are a key part of the TMS Annual Meeting Exhibition presenting the most recent developments discoveries and practices in primary aluminum science and technology Publishing the proceedings from these important symposia the Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2014 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Fabrication Characterization and Applications Aluminum Processing Aluminum Reduction Technology Cast Shop for Aluminum Production Electrode Technology for Aluminum Production Light metal Matrix Nano composites

Chemistry for Sustainable Technologies Neil Winterton, 2021-02-04 Following the success of the first edition this fully updated and revised book continues to provide an interdisciplinary introduction to sustainability issues in the context of chemistry and chemical technology Its prime objective is to equip young chemists and others to more fully to appreciate defend and promote the role that chemistry and its practitioners play in moving towards a society better able to control manage and ameliorate its impact on the ecosphere To do this it is necessary to set the ideas concepts achievements and challenges of chemistry and its application in the context of its environmental impact past present and future and of the changes needed to bring about a more sustainable yet equitable world Progress since 2010 is reflected by the inclusion of the latest research and thinking selected and discussed to put the advances concisely in a much wider setting historic scientific technological intellectual and societal The treatment also examines the complexities and additional challenges arising from public and media attitudes to science and technology and associated controversies and from the difficulties in reconciling environmental protection and global development While the book stresses the central importance of rigour in the collection and treatment of evidence and reason in decision making to ensure that it meets the needs of an extensive community of students it is broad in scope rather than deep It is therefore appropriate for a wide audience including all practising scientists and technologists

Springer Handbook of Aerogels Michel A. Aegerter, Nicholas Leventis, Matthias Koebel, Stephen A. Steiner III, 2023-10-01 This indispensable handbook provides comprehensive coverage of the current state of the art in inorganic organic and composite aerogels from synthesis and characterization to cutting edge applications and their potential market impact Built upon Springer's successful Aerogels Handbook published in 2011 this handbook features extensive revisions and timely updates reflecting the changes in this fast growing field Aerogels are the lightest solids known to man Up to 1000 times lighter than glass and with a density only four times that of air they possess extraordinarily high thermal electrical and acoustic insulation properties and boast numerous entries in Guinness World Records Originally based on silica R D efforts have extended this class of materials to incorporate non silicate inorganic oxides natural and synthetic organic polymers carbon metal and ceramic materials Composite systems involving polymer crosslinked aerogels and interpenetrating hybrid networks have been developed and exhibit remarkable mechanical

strength and flexibility Even more exotic aerogels based on clays chalcogenides phosphides quantum dots and biopolymers such as chitosan are opening new applications for the construction transportation energy defense and healthcare industries Applications in electronics chemistry mechanics engineering energy production and storage sensors medicine nanotechnology military and aerospace oil and gas recovery thermal insulation and household uses are being developed Readers of this fully updated and expanded edition will find an exhaustive source for all aerogel materials known today their fabrication upscaling aspects physical and chemical properties and the most recent advances towards applications and commercial use This key reference is essential reading for a combined audience of graduate students academic researchers and industry professionals

Non-exhaust Particulate Emissions from Road Transport An Ignored Environmental Policy Challenge OECD,2020-12-07 Non exhaust emissions of particulate matter constitute a little known but rising share of emissions from road traffic and have significant negative impacts on public health This report synthesizes the current state of knowledge about the nature causes and consequences of non exhaust particulate emissions It also projects how particulate matter emissions from non exhaust sources may evolve in future years and reflects on policy instrument mixes that can address this largely ignored environmental issue

Mineralogy and Geochemistry of Gems Panagiotis Voudouris,Stefanos Karampelas,Vasilios Melfos,Ian Graham,2020-03-10 Gems have been used in the manufacture of jewellery and as ornaments since antiquity Considering gems recent statistics have shown that about 15 billion Euros are annually at stake Nowadays gemmology i e the study of gem materials is one of the most expanding fields in the earth sciences positioned between academia and industry As an applied science in gemmology the instruments used should be non or microdestructive and their cost should be reasonable both in terms of equipment and time consumption Gemmology can also be used contribute to the development of pure science and in some cases destructive techniques may have to be used Taking into account the fact that gems are albeit rarely available for scientific research this compilation of 20 articles by around 100 researchers from over 30 different institutions situated in 20 countries from around the globe presented in the Special Issue entitled Mineralogy and Geochemistry of Gems offers very good examples on the application of various methods for their study which will hopefully contribute to our better understanding of gem formation in general and will enhance scientific debates attracting more scientists from various disciplines to get involved in this field

Environmental Management Technologies Pankaj Chowdhary,Vineet Kumar,Sunil Kumar,Vishvas Hare,2022-11-29 Environmental Management Technologies Challenges and Opportunities details the environmental problems posed by the various types of toxic organic and inorganic pollutants discharged from both natural and anthropogenic activities and their toxicological effects in environments humans animals and plants This book also highlights the recent advanced and innovative methods for the effective degradation and bioremediation of organic pollutants heavy metals dyes etc from the environment for sustainable development Features of the book Provides state of the art information on pollutants their sources and deleterious impacts on the environment

Elucidates the recent updates on Emerging Pollutants EPs in pharmaceutical waste and personal care products Discusses the various physico chemical biological and combination treatment systems for sustainable development Details recent research findings in the area of environmental waste management and their future challenges and opportunities *Yearbook of International Organizations 2013-2014 (Volume 3)* Union Of International Associations, Union of International Associations, 2013-08-09 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 **Periodico di Mineralogia Vol. 86, 1 aprile 2017** Paolo Ballirano, 2017-04-30 Monika Huraiov Patrik Kone n Ivan Holick Stanislava Milovsk Ondrej Nemec Vratislav Hurai Mineralogy and origin of peralkaline granite syenite nodules ejected in Pleistocene basalt from Bulhary southern Slovakia Laura Medeghini and Lorenzo Nigro Khirbet al Batrawy ceramics a systematic mineralogical and petrographic study for investigating the material culture Liam A Bullock Ralf Gertisser Brian O Driscoll Spherulite formation in obsidian lavas in the Aeolian Islands Italy Simone Pollastri Natale Perchiazzi Lara Gigli Paolo Ferretti Alessandro Cavallo Nicola Bursi Gandolfi Kilian Pollok Alessandro F Gualtieri The crystal structure of mineral fibres 2 Amosite and fibrous anthophyllite Nima Nezafati and Morteza Hessari Tappeh Shoghali A significant early silver production site in North Central Iran Shanke Liu Jiaju Li Jianming Liu An updated model of Rietveld structure refinement of Na feldspar *Expanding Boundaries: Systems Thinking in the Built Environment* Guillaume Habert, Arno Schlueter, 2016-08-15 Consuming over 40% of total primary energy the built environment is in the centre of worldwide strategies and measures towards a more sustainable future To provide resilient solutions a simple optimisation of individual technologies will not be sufficient In contrast whole system thinking reveals and exploits connections between parts Each system interacts with others on different scales materials components buildings cities and domains ecology economy and social Whole system designers optimize the performance of such systems by understanding interconnections and identifying synergies The more complete the design integration the better the result In this book the reader will find the proceedings of the 2016 Sustainable Built Environment SBE Regional Conference in Zurich Papers have been written by academics and practitioners from all continents to bring forth the latest understanding on systems thinking in the built environment **Phase Estimation in Optical Interferometry** Pramod Rastogi, Erwin Hack, 2014-11-21 Phase Estimation in Optical Interferometry covers the essentials of phase stepping algorithms used in interferometry and pseudointerferometric techniques It presents the basic concepts and mathematics needed for understanding the phase

estimation methods in use today The first four chapters focus on phase retrieval from image transforms using a single frame The next several chapters examine the local environment of a fringe pattern give a broad picture of the phase estimation approach based on local polynomial phase modeling cover temporal high resolution phase evaluation methods and present methods of phase unwrapping The final chapter discusses experimental imperfections that are liable to adversely influence the accuracy of phase measurements Responding to the push for the deployment of novel technologies and fast evolving techniques this book provides a framework for understanding various modern phase estimation methods It also helps readers get a comparative view of the performance and limitations of the approaches **Periodico di Mineralogia Vol. 86, 2**

settembre 2017 Paolo Ballirano, 2017-09-30 Contents Simone Pollastri Lara Gigli Paolo Ferretti Giovanni B Andreozzi Nicola Bursi Gandolfi Kilian Pollok Alessandro F Gualtieri The crystal structure of mineral fibres 3 Actinolite asbestos Dmitry A Chebotarev Anna G Doroshkevich Reiner Klemm Nikolay S Karmanov Evolution of Nb mineralization in the Chukotkan carbonatite massif Chadobets upland Krasnoyarsk Territory Russia Nicola Mondillo Giuseppina Balassone Maria Boni Antonio Marino Giuseppe Arf Evaluation of the amount of rare earth elements REE in the Silius fluorite vein system SE Sardinia Italy Fuat Yavuz and Zeynep Diner WinAmptb A Windows program for calcic amphibole thermobarometry Marcella Di Bella Francesco Italiano Davide Romano Alessandro Tripodo Giuseppe Sabatino Geochemistry and tectonic setting of triassic magmatism from the Lercara Basin Sicily Italy Silvio Mollo Francesco Vetere Harald Beherens Vanni Tecchiato Antonio Langone Piergiorgio Scarlato Diego Perugini The effect of degassing and volatile exsolution on the composition of a trachybasaltic melt decompressed at slow and fast rates [Polysaccharide-Based Nanocomposites for Gene Delivery and Tissue Engineering](#) Showkat Ahmad Bhawani, Zoheb Karim, Mohammad Jawaid, 2021-06-02

[Polysaccharide-Based Nanocomposites for Gene Delivery and Tissue Engineering](#) presents quantitative background on new polysaccharide nanocomposites in a clear and logical way highlighting the most exciting applications in gene delivery and tissue engineering and their progress The book focuses on the different types of polysaccharide nanocomposites for gene delivery and tissue engineering and covers polysaccharide hydrogels for tissue engineering and polysaccharide magnetic nanocomposites for gene delivery Chapters cover various nanocomposites presented in twenty one separate chapters This book will be of great interest to all those researching the development and applications of polysaccharide based nanocomposites for modeling As polysaccharide based nanocomposites promise cutting edge applications in gene delivery and tissue engineering with their development at the forefront of modern medicine this book is a welcome title on this exciting science Presents quantitative background on new polysaccharide nanocomposites for advanced medicine Focuses on polysaccharide nanocomposites in relation to gene delivery and tissue engineering Highlights the most exciting leading edge applications in gene delivery and tissue engineering Covers polysaccharide hydrogels for tissue engineering and magnetic nanocomposites for gene delivery Offers a logical and useful presentation of polysaccharide nanocomposites organized first by application and then by

nanocomposite **Diagnosis & Prognosis of AAR Affected Structures** Victor E. Saouma, 2020-09-21 This book presents the work of the RILEM Technical Committee 259 ISR Addressing two complementary but fundamental issues the kinetics of the reaction and how this will affect the integrity of the structure serviceability and strength it also provides methodology for assessing past deterioration to enable readers to make engineering science based predictions concerning future expansion The book is divided into six major topics selection and interpretation of optimal monitoring system for structures undergoing expansion to monitor the progress of the swelling evolution and its consequences development refinement of current laboratory procedures to determine the kinetics of the reaction i.e expansion vs future time and to determine the kinetic characteristics of the time dependent reaction to be used in a finite element simulation extrapolation of results from structural component laboratory testing selection of material properties based on data from existing structures affected by the alkali silica reaction or delayed ettringite formation identification of critical features that should be present in a finite element code development of test problems for validation and a survey of relevant programs able to conduct a transient structural analysis of a structure undergoing chemically induced expansion and lastly guidelines for finite element codes The book is intended for practitioners responsible for concrete structures affected by the damaging alkali aggregate reaction engineers dealing with aging structures and researchers in the field *Fabricate 2024* Bob Sheil, Marilena Skavara, Mette Ramsgaard Thomsen, Phil Ayres, 2024-04-04 *Fabricate 2024* Creating Resourceful Futures is the fifth volume in the series of *Fabricate* publications The first conference Making Digital Architecture explored the ways in which technology design and industry are shaping the world around us Since then we have become finely attuned to the negative impacts of this shaping The 2024 conference hosted in Copenhagen sets focus on the pressing need to develop new models for architectural production that rethink how resource is deployed its intensity its socio ecological origins and sensitivity to environment This book features the work of designers engineers and makers operating within the built environment It documents disruptive approaches that reconsider how fabrication can be leveraged to address our collective and entangled challenges of resource scarcity climate emergency and burgeoning demand Exploring case studies of completed buildings and works in progress together with interviews with leading thinkers this edition of *Fabricate* offers a plurality of tangible models for design and production that set a creative and responsible course towards resourceful futures **Key Engineering Materials, Volume 2** Francois Kajzar, Eli M. Pearce, Nikolai A. Turovskij, Omari V. Mukbaniani, 2014-02-18 This book provides innovative chapters on the growth of educational scientific and industrial research activities among chemists biologists and polymer and chemical engineers and provides a medium for mutual communication between international academia and the industry It presents significant research and reviews reporting new methodologies and **Paper Chemistry** Dan Eklund, Tom Lindström, 1991 Paper Chemistry J.C. Roberts, 2012-12-06 Although the title of this book is Paper Chemistry it should be considered as a text about the chemistry of the formation of paper from aqueous suspensions of fibre and other additives rather than as a

book about the chemistry of the raw material itself It is the subject of what papermakers call wet end chemistry There are many other excellent texts on the chemistry of cellulose and apart from one chapter on the accessibility of cellulose the subject is not addressed here Neither does the book deal with the chemistry of pulp preparation from wood from other plant sources or from recycled fibres for there are also many excellent texts on this subject The first edition of this book was a great success and soon became established as one of the Bibles of the industry Its achievement then was to collect the considerable advances in understanding which had been made in the chemistry of papermaking in previous years and provide for the first time a sound physico chemical basis of the subject This new edition has been thoroughly updated with much new material added The formation of paper is a continuous filtration process in which cellulosic fibres are formed into a network which is then pressed and dried The important chemistry involved in this process is firstly the retention of colloidal material during filtration and secondly the modification of fibre and sheet properties so as to widen the scope for the use of paper and board products

The Chemistry of Paper John Christopher Roberts,1991 **Pulp and Paper Chemistry and Technology** , **Chemistry of Pulp and Paper Making** Edwin Sutermeister,1951

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