

Chemistry Nov 1999 Mark Scheme 9701

Unbreakable Stephane Hallegatte,Adrien Vogt-Schilb,Mook Bangalore,Julie Rozenberg.2016-11-24 'Economic losses from natural disasters totaled \$92 billion in 2015.' Such statements, all too commonplace, assess the severity of disasters by no other measure than the damage inflicted on buildings, infrastructure, and agricultural production. But \$1 in losses does not mean the same thing to a rich person that it does to a poor person; the gravity of a \$92 billion loss depends on who experiences it. By focusing on aggregate losses—the traditional approach to disaster risk—we restrict our consideration to how disasters affect those wealthy enough to have assets to lose in the first place, and largely ignore the plight of poor people. This report moves beyond asset and production losses and shifts its attention to how natural disasters affect people's well-being. Disasters are far greater threats to well-being than traditional estimates suggest. This approach provides a more nuanced view of natural disasters than usual reporting, and a perspective that takes fuller account of poor people's vulnerabilities. Poor people suffer only a fraction of economic losses caused by disasters, but they bear the brunt of their consequences. Understanding the disproportionate vulnerability of poor people also makes the case for setting new intervention priorities to lessen the impact of natural disasters on the world's poor, such as expanding financial inclusion, disaster risk and health insurance, social protection and adaptive safety nets, contingent finance and reserve funds, and universal access to early warning systems. Efforts to reduce disaster risk and poverty go hand in hand. Because disasters impoverish so many, disaster risk management is inseparable from poverty reduction policy, and vice versa. As climate change magnifies natural hazards, and because protection infrastructure alone cannot eliminate risk, a more resilient population has never been more critical to breaking the cycle of disaster-induced poverty.

Single Molecule Spectroscopy R. Rigler,M. Orrit,T. Basche.2012-12-06 The topics range from single molecule experiments in quantum optics and solid-state physics to analogous investigations in physical chemistry and biophysics.

Modern Cyclophane Chemistry Rolf Gleiter,Henning Hopf.2006-03-06 Here, the editors Rolf Gleiter and Henning Hopf present an excellent overview of all the important aspects and latest results in cyclophane chemistry. Clearly structured and covering the entire range, the book introduces readers to the most recent research in the field. Twenty chapters, written by well-known scientists, cover in particular: - synthesis of carbo- and heterocyclic cyclophanes and metallocenophanes, - structural and spectroscopic properties of cyclophanes, - current and future applications in synthesis and material science, - novel reactions of cyclophanes, - use of cyclophanes as building blocks in supramolecular chemistry for this fascinating class of compounds. Thus, this is not only an extremely valuable source of information for synthetic organic chemists, but also a ready reference for scientists working in related fields of arene chemistry, stereoselective synthesis, material science, and bioorganic chemistry.

Cambridge International AS and A Level Chemistry Peter Cann,Peter Hughes.2015-03-06 Endorsed by Cambridge Assessment International Education for full syllabus coverage Foster a deeper understanding of theoretical concepts through clear guidance and opportunities for self-assessment throughout; covers the entire Cambridge International AS & A Level Chemistry syllabus (9701). - Navigate the different routes through the course with ease with clearly divided sections for AS and A Level. - Focus learning with learning outcomes clearly defined at the beginning of each section - Test knowledge and understanding with past paper and exam-style questions - Address the Key Concepts in the syllabus, which are clearly highlighted throughout the course The Revision and Practice CD included with every Student's Book provides interactive tests, summaries of each topic and advice on examination techniques.

Nb3Sn Accelerator Magnets Daniel Schoerling,Alexander V. Zlobin.2019-01-01 This open access book is written by world-recognized experts in the fields of applied superconductivity and superconducting accelerator magnet technologies. It provides a contemporary review and assessment of the experience in research and development of high-field accelerator dipole magnets based on Nb3Sn superconductor over the past five decades. The reader attains clear insight into the development and the main properties of Nb3Sn composite superconducting wires and Rutherford cables, and details of accelerator dipole designs, technologies and performance. Special attention is given to innovative features of the developed Nb3Sn magnets. The book concludes with a discussion of accelerator magnet needs for future circular colliders.

Code of Federal Regulations .1996 Special edition of the Federal register. Subject/agency index for rules codified in the Code of Federal Regulations, revised as of Jan. 1 ...

Organic Syntheses Based on Name Reactions and Unnamed Reactions Alfred Hassner,C Stumer.2013-10-22 Synthetically useful organic reactions or reagents are often referred to by the name of the discoverer(s) or developer(s). Older name reactions are described in text books, but more recently developed synthetically useful reactions that may have been associated occasionally with a name are not always well known. For neither of the above are experimental procedures or references easy to find. In this monograph approximately 500 name reactions are included, of which over 200 represent newer name reactions and modern reagents. Each of these reactions are extremely useful for the contemporary organic chemistry researcher in industry or academic institutions. This book provides the information in an easily accessible form. In addition to seminal references and reviews, one or more examples for each name reaction are provided and a complete typical experimental procedure is included, to enable the student or researcher to immediately evaluate reaction conditions. Besides an alphabetical listing of reactions and reagents, cross references permit the organic practitioner to find those name reactions or reagents that enable specific transformations, such as, conversion of amines to nitriles, stereoselective reduction, fluoroalkylation, phenol alkynylation, asymmetric syntheses, allylic alkylation, nucleoside synthesis, cyclopentanation, hydrozirconation, to name a few. Emphasis has been placed on stereoselective and regioselective transformations as well as on enantioselective processes. The listing of reactions and reagents is supported by four indexes.

Heterogeneous Photocatalysis Using Inorganic Semiconductor Solids Umar Ibrahim Gaya.2013-11-08 This book underscores the essential principles of photocatalysis and provides an update on its scientific foundations, research advances, and current opinions, and interpretations. It consists of an introduction to the concepts that form the backbone of photocatalysis, from the principles of solid-state chemistry and physics to the role of reactive oxidizing species. Having recognised the organic link with chemical kinetics, part of the book describes kinetic concepts as they apply to photocatalysis. The dependence of rate on the reaction conditions and parameters is detailed, the retrospective and prospective aspects of the mechanism of photocatalysis are highlighted, and the adsorption models, photocatalytic rate expressions, and kinetic disguises are examined. This book also discusses the structure, property, and activity relationship of prototypical semiconductor photocatalysts and reviews how to extend their spectral absorption to the visible region to enable the effective use of visible solar spectrum. Lastly, it presents strategies for deriving substantially improved photoactivity from semiconductor materials to support the latest applications and potential trends.

Products and Services Catalogue .1999

Novel Technologies for Vaccine Development Igor S Lukashevich,Haval Shirwan.2014-11-13 This book presents a detailed overview of the development of new viral vector-based vaccines before discussing two major applications: preventive vaccines for infectious diseases and therapeutic cancer vaccines. Viral vector-based vaccines hold a great potential for development into successful pharmaceutical products and several examples at the advanced pre-clinical or clinical stage are presented. Nevertheless, the most efforts were focused on novel and very innovative technologies for new generation of vector-based vaccines. Furthermore, specific topics such as delivery and adjuvant and protection strategies for cell-mediated-based vaccines are presented. Given its scope, the book is a "must read" for all those involved in vaccine development, both in academia and industrial vaccine development.

IGCSE Information and Communication Technology Graham Brown,David Watson.2010 Please note this title is still being made available for students sitting their examinations in 2015. Our second edition supports the updated syllabus for first examination 2016. Textbook and free CD-ROM, endorsed by Cambridge International Examinations for the IGCSE syllabus in Information and Communication Technology (0417) for final examination 2015. - Written by experienced examiners and teachers, who bring a wealth of theoretical knowledge and practical experience to both

the book and the CD - Ensures that students are fully prepared for both the written theory paper as well as the two practical papers. - Each Section of the syllabus is fully covered in the text book, with clear explanations and plenty of tasks and activities. - The CD contains source files for the tasks and activities, as well as examination-style questions (with model answers) and a glossary.

Organic Sonochemistry Jean-Marc L  v  que, Giancarlo Cravotto, Fran  ois Delattre, Pedro Cintas. 2018-10-20 This book provides informative, useful, and stimulating reading on the topic of organic sonochemistry - the core of ultrasound-based applications. Given the increasing interest in new and improved technologies, allied to their green and sustainable character (not always a valid premise), there is a great attraction for organic chemists to apply these protocols in synthesis and process chemistry. Unfortunately, as with other enabling technologies, many researchers new to the field have received a simple and dishonest message: just switch on! Therefore a significant portion of sonochemical syntheses lack reproducibility (surprisingly cavitation control and/or ultrasonic parameters are omitted) and the actual role of sonication remains uncertain. While this book does not provide a detailed description of fundamentals, the introductory remarks highlight the importance of cavitation effects and their experimental control. It presents a number of concepts of sonochemical reactivity and empirical rules with pertinent examples, often from classical and recent literature. It then focuses on scenarios of current interest where organic chemistry, and synthesis in particular, may benefit from sonication in terms of both chemical and mechanical activation. The "sustainable corner" of this field is largely exemplified through concepts like atom economy, renewable sources, wasteless syntheses, and benign solvents as reaction media. This book is useful for both researchers and graduate students, especially those familiar with the field of sonochemistry and applications of ultrasound in general. However, it is also of interest to a broader audience as it discusses the fundamentals, techniques, and experimental skills necessary for scientists wishing to initiate the use of ultrasound in their domain of expertise.

Chemical Rocket Propulsion Luigi T. De Luca, Toru Shimada, Valery P. Sinditskii, Max Calabro. 2016-08-19 Developed and expanded from the work presented at the New Energetic Materials and Propulsion Techniques for Space Exploration workshop in June 2014, this book contains new scientific results, up-to-date reviews, and inspiring perspectives in a number of areas related to the energetic aspects of chemical rocket propulsion. This collection covers the entire life of energetic materials from their conceptual formulation to practical manufacturing; it includes coverage of theoretical and experimental ballistics, performance properties, as well as laboratory-scale and full system-scale, handling, hazards, environment, ageing, and disposal. Chemical Rocket Propulsion is a unique work, where a selection of accomplished experts from the pioneering era of space propulsion and current technologists from the most advanced international laboratories discuss the future of chemical rocket propulsion for access to, and exploration of, space. It will be of interest to both postgraduate and final-year undergraduate students in aerospace engineering, and practicing aeronautical engineers and designers, especially those with an interest in propulsion, as well as researchers in energetic materials.

Chemistry and Radiation Changes in the Ozone Layer Christos S. Zerefos, Ivar S.A. Isaksen, Ioannis Ziomas. 2000-12-31 Recent studies have demonstrated a link between ozone changes caused by human activities and changing UV levels at the Earth's surface, as well as a link to climate through changes in radiative forcing and links to changes in chemical composition. This book draws together key scientists who provide state of the art contributions on the variable ozone layer and the interplay of longwave and shortwave radiative interactions which link ozone, the climate and UV issues.

Code of Federal Regulations .2005

Charged Particle and Photon Interactions with Matter Yoshihiko Hatano, Yosuke Katsumura, A. Mozumder. 2010-12-13 Building on Mozumder's and Hatano's Charged Particle and Photon Interactions with Matter: Chemical, Physicochemical, and Biological Consequences with Applications (CRC Press, 2004), Charged Particle and Photon Interactions with Matter: Recent Advances, Applications, and Interfaces expands upon the scientific contents of the previous volume by cover

Diradicaloids Jishan Wu. 2022-04-01 π -Conjugated molecules with an even number of π -electrons usually have a closed-shell ground state. However, recent studies have demonstrated that a certain type of molecules could show open-shell singlet ground state and display diradical-like (diradicaloid) behavior. Their electronic structure can be understood in terms of the "diradical character" and "aromaticity" concepts. They display very different electronic properties from traditional closed-shell π -conjugated molecules and could be used as next-generation molecular materials. This book provides a comprehensive review on the chemistry, physics, and material applications of open-shell singlet diradicaloids. Particularly, it elaborates the fundamental structure-diradical character-electronic property relationships both theoretically and experimentally. The book has been written by leading scientists in the field from Japan, Germany, Spain, Italy, China, and Singapore.

The Laws of Thermodynamics: A Very Short Introduction Peter Atkins. 2010-03-25 From the sudden expansion of a cloud of gas or the cooling of a hot metal, to the unfolding of a thought in our minds and even the course of life itself, everything is governed by the four Laws of Thermodynamics. These laws specify the nature of 'energy' and 'temperature', and are soon revealed to reach out and define the arrow of time itself: why things change and why death must come. In this Very Short Introduction Peter Atkins explains the basis and deeper implications of each law, highlighting their relevance in everyday examples. Using the minimum of mathematics, he introduces concepts such as entropy, free energy, and to the brink and beyond of the absolute zero temperature. These are not merely abstract ideas: they govern our lives. In this concise and compelling introduction Atkins paints a lucid picture of the four elegant laws that, between them, drive the Universe. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Cambridge International AS & A Level Chemistry Student's Book Second Edition Peter Cann, Peter Hughes. 2020-04-27 This title is endorsed by Cambridge Assessment International Education to support the full syllabus for examination from 2022. Confidently navigate the updated Cambridge International AS & A Level Chemistry (9701) syllabus with a structured approach ensuring that the link between theory and practice is consolidated, scientific skills are applied, and analytical skills developed. - Enable students to monitor and build progress with short 'self-assessment' questions throughout the student text, with answers at the back of the book, so students can check their understanding as they work their way through the chapters. - Build scientific communication skills and vocabulary in written responses with a variety of exam-style questions. - Encourage understanding of historical context and scientific applications with extension boxes in the student text. - Have confidence that lessons cover the syllabus completely with a free Scheme of Work available online. - Provide additional practice with the accompanying write-in Practical Skills Workbooks, which once completed, can also be used to recap learning for revision.

Molecular Electronic-Structure Theory Trygve Helgaker, Poul Jorgensen, Jeppe Olsen. 2014-08-11 Ab initio quantum chemistry has emerged as an important tool in chemical research and is applied to a wide variety of problems in chemistry and molecular physics. Recent developments of computational methods have enabled previously intractable chemical problems to be solved using rigorous quantum-mechanical methods. This is the first comprehensive, up-to-date and technical work to cover all the important aspects of modern molecular electronic-structure theory. Topics covered in the book include: * Second quantization with spin adaptation * Gaussian basis sets and molecular-integral evaluation * Hartree-Fock theory * Configuration-interaction and multi-configurational self-consistent theory * Coupled-cluster theory for ground and excited states * Perturbation theory for single- and multi-configurational states * Linear-scaling techniques and the fast multipole method * Explicitly correlated wave functions * Basis-set convergence and extrapolation * Calibration and benchmarking of computational methods, with applications to molecular equilibrium structure, atomization energies and reaction enthalpies. Molecular Electronic-Structure Theory makes extensive use of numerical examples, designed to illustrate the strengths and weaknesses of each method treated. In addition, statements about the usefulness and deficiencies of the various methods are supported by actual examples, not just model calculations. Problems and exercises are provided at the end of each chapter, complete with hints and solutions. This book is a must for researchers in the field of quantum chemistry as well as for nonspecialists who wish to acquire a thorough understanding of ab initio molecular electronic-structure theory and its applications to problems in chemistry and physics. It is also highly recommended for the teaching of graduates and advanced undergraduates.

Animal Spirits George A. Akerlof, Robert J. Shiller. 2010-02-01 From acclaimed economists George Akerlof and Robert Shiller, the case for why government is needed to restore confidence in the economy. The global financial crisis has made it painfully clear that powerful psychological forces are imperiling the wealth of nations today. From blind faith in ever-rising housing prices to plummeting confidence in capital markets, animal spirits are driving financial events worldwide. In this book, acclaimed economists George Akerlof and Robert Shiller challenge the economic wisdom that got us into this mess, and put forward a bold new vision that will transform economics and restore prosperity. Akerlof and Shiller reassert the necessity of an active government role in economic policymaking by recovering the idea of animal spirits, a term John Maynard Keynes used to describe the gloom and despondence that led to the Great Depression and the changing psychology that accompanied recovery. Like Keynes, Akerlof and Shiller know that managing these animal spirits requires the steady hand of government—simply allowing markets to work won't do it. In rebuilding the case for a more robust, behaviorally informed Keynesianism, they detail the most pervasive effects of animal spirits in contemporary economic life—such as confidence, fear, bad faith, corruption, a concern for fairness, and the stories we tell ourselves about our economic fortunes—and show how Reaganomics, Thatcherism, and the rational expectations revolution failed to account for them. *Animal Spirits* offers a road map for reversing the financial misfortunes besetting us today. Read it and learn how leaders can channel animal spirits—the powerful forces of human psychology that are afoot in the world economy today. In a new preface, they describe why our economic troubles may linger for some time—unless we are prepared to take further, decisive action.

Business Studies: IGCSE Chris J. Nuttall. 2002-06-20 Written to cover the IGCSE syllabus, *Business Studies: IGCSE* is divided into five sections, which are in turn divided into units that provide convenient and flexible areas of learning. Each unit has a brief introduction followed by a business-in-context section and questions designed to help students understand the implications of the topic. Each unit contains definitions of key terms and ends with a summary of the topic covered.

TEI P5 TEI Consortium. 2008

Supported Catalysts and Their Applications David C Sherrington, A P Kybett. 2007-10-31 The need to improve both the efficiency and environmental acceptability of industrial processes is driving the development of heterogeneous catalysts across the chemical industry, including commodity, specialty and fine chemicals and in pharmaceuticals and agrochemicals. Drawing on international research, *Supported Catalysts and their Applications* discusses aspects of the design, synthesis and application of solid supported reagents and catalysts, including supported reagents for multi-step organic synthesis; selectivity in oxidation catalysis; mesoporous molecular sieve catalysts; and the use of Zeolite Beta in organic reactions. In addition, the two discrete areas of heterogeneous catalysis (inorganic oxide materials and polymer-based catalysts) that were developing in parallel are now shown to be converging, which will be of great benefit to the whole field. Providing a snapshot of the state-of-the-art in this fast-moving field, this book will be welcomed by industrialists and researchers, particularly in the agrochemicals and pharmaceuticals industries.

Signal Transduction by Reactive Oxygen and Nitrogen Species: Pathways and Chemical Principles H.J. Forman, J.M. Fukuto, M.

Torres. 2011-07-30 Henry Jay Forman, Jon Fukuto and Martine Torres Research is to see what everybody else has seen and to think what nobody else has thought. -- Albert Szent-Gyorgyi Several years ago, one of us put together a book that dealt with various aspects of oxidative stress and introduced the concept of signal transduction by oxidants. Since then, the interest in the mechanisms by which reactive oxygen and nitrogen species (ROS/RNS) can modulate the cell's response has tremendously grown, paralleling the intense efforts towards identifying new signaling pathways in which phosphorylation/dephosphorylation events take center stage. Evidence is now mounting that production of these species by the cells is required for their function from growth to apoptosis and numerous signaling pathways have been identified where the participation of ROS and RNS is apparent (see Chapters 11-14, 16 and 18). Thus, the field is no more limited to the group of free radical aficionados who have pioneered this area of research but has now gone mainstream. While it is satisfactory for those of us who have been working on this topic for a long time, it has the risk of becoming the "fashionable" motto where those molecules, still mysterious to some, become responsible for everything and anything.

Compendium of methods for the determination of toxic organic compounds in ambient air .

ICSE Art of Effective English Writing for Classes IX-X (2021 Edition) Meena Singh & O.P. Singh. Art of Effective English Writing

The Easy Guide to Repertory Grids Devi Jankowicz. 2005-01-21 A user-friendly introduction to the powerful mental mapping tool of repertory grid technique. Repertory grid technique is a system for identifying, in detail, what you or anyone else really thinks about an issue. You can use it as a tool for personal discovery, as a device for team building activities, or as a problem-solving aid. Written as a DIY guide, with a friendly expert sitting beside you, this book will teach you the technique of repertory grids step by step. Here you'll find all the information you need, alongside lots of worked examples and helpful exercises that you can use to check your understanding. The answers are in the back! If you want additional practice and resources a website that supports this book can be found at www.wiley.co.uk/easyguide Professor Devi Jankowicz is one of the leading authorities on occupational applications of personal construct theory and repertory grid technique. He has written this guide for psychology students and researchers; education students; personnel practitioners; as well as managers in the workplace. This book's title may seem a contradiction in terms to readers who have seen the repertory grid as dauntingly complex. However, the book lives up to its title in being a very user-friendly introduction to the technique, written in a chatty style, and including numerous practical exercises, mostly not requiring use of computer software. - David Winter University of Hertfordshire and Barnet, Enfield and Haringey Mental Health NHS Trust

Moving Out of Poverty Deepa Narayan, Patti Petesch. 2009-12-09 There is no peace with hunger. Only promises and promises and no fulfillment. If there is no job, there is no peace. If there is nothing to cook in the pot, there is no peace. - Oscar, a 57-year-old man, El Gorri n, Colombia They want to construct their houses near the road, and they cannot do that if they do not have peace with their enemies. So peace and the road have developed a symbiotic relation. One cannot live without the other. . . . - A community leader from a conflict-affected community on the island of Mindanao, Philippines Most conflict studies focus on the national level, but this volume focuses on the community level. It explores how communities experience and recover from violent conflict, and the surprising opportunities that can emerge for poor people to move out of poverty in these harsh contexts. 'Rising from the Ashes of Conflict' reveals how poor people's mobility is shaped by local democracy, people's associations, aid strategies, and the local economic environment in over 100 communities in seven conflict-affected countries, including Afghanistan. The findings suggest the need to rethink postconflict development assistance. This is the fourth volume in a series derived from the Moving Out of Poverty study, which explores mobility from the perspectives of poor people in more than 500 communities across 15 countries.

The Origins of Life D. W. Deamer, Jack W. Szostak. 2010 Life arose on Earth more than three billion years ago. How the first self-replicating systems emerged from prebiotic chemistry and evolved into primitive cell-like entities is an area of intense research, spanning molecular and cellular biology, organic chemistry, cosmology, geology, and atmospheric science. Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Biology provides a comprehensive account of the environment of the early Earth and the mechanisms by which the organic molecules present may have self-assembled to form replicating material such as RNA and other polymers. The contributors examine the energetic requirements for this process and focus in particular on the essential role of semi-permeable compartments in containment of primitive genetic systems. Also covered in the book are new synthetic approaches for fabricating cellular systems, the potentially extraterrestrial origin of life's building blocks, and the possibility that life once existed on Mars. Comprising five sections Setting the Stage, Components of First Life, Primitive Systems, First Polymers, and Transition to a Microbial World it is a vital reference for all scientists interested in the origin of life on Earth and the likelihood that it has arisen on other planets

Network Science National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Network Science for Future Army Applications. 2005-12-15 The military is currently attempting to develop itself into a force capable of networkcentric operations. While this effort has highlighted the military's dependence on interacting networks, it has also shown that there is a huge gap between what we need to know about networks and our fundamental knowledge about network behavior. This gap makes the military vision of NCO problematic. To help address this problem, the Army asked the NRC to find out whether identifying and funding a new field of network science

could help close this gap. This report presents an examination of networks and the military, an analysis of the promise, content, and challenges of network science, and an assessment of approaches to creating value from network science.

Snakes Stephen J. Mullin, Richard A. Seigel. 2011-08-15 Destruction of habitat due to urban sprawl, pollution, and deforestation has caused population declines or even extinction of many of the world's approximately 2,600 snake species. Furthermore, misconceptions about snakes have made them among the most persecuted of all animals, despite the fact that less than a quarter of all species are venomous and most species are beneficial because they control rodent pests. It has become increasingly urgent, therefore, to develop viable conservation strategies for snakes and to investigate their importance as monitors of ecosystem health and indicators of habitat sustainability. In the first book on snakes written with a focus on conservation, editors Stephen J. Mullin and Richard A. Seigel bring together leading herpetologists to review and synthesize the ecology, conservation, and management of snakes worldwide. These experts report on advances in current research and summarize the primary literature, presenting the most important concepts and techniques in snake ecology and conservation. The common thread of conservation unites the twelve chapters, each of which addresses a major subdiscipline within snake ecology. Applied topics such as methods and modeling and strategies such as captive rearing and translocation are also covered. Each chapter provides an essential framework and indicates specific directions for future research, making this a critical reference for anyone interested in vertebrate conservation generally or for anyone implementing conservation and management policies concerning snake populations.

Prebiotic Chemistry and Chemical Evolution of Nucleic Acids César Menor-Salván. 2018-08-01 The origin of life is one of the biggest unsolved scientific questions. This book deals with the formation and first steps of the chemical evolution of nucleic acids, including the chemical roots behind the origin of their components from the simplest sources in a geochemical context. Chemical evolution encompasses the chemical processes and interactions conducive to self-assembly and supramolecular organization, leading to an increase of complexity and the emergence of life. The book starts with a personal account of the pioneering work of Stanley Miller and Jeffrey Bada on the Chemistry of Origins of Life and how the development of organic chemistry beginning in the 19th century led to the emergence of the field of prebiotic chemistry, situated at the frontier between organic, geo- and biochemistry. It then continues reviewing in tutorial manner current central topics regarding the organization of nucleic acids: the origin of nucleobases and nucleosides, their phosphorylation and polymerization and ultimately, their self-assembly and supramolecular organization at the inception of life.

Light-Associated Reactions of Synthetic Polymers A. Ravve. 2007-01-15 This book combines theoretical explanations of the reactions of light and polymeric materials with development of light responsive polymeric materials for various practical applications. Photo associated reactions and light responsive materials have great potential to improve existing industrial processes, including capturing solar energy. This book presents a range of reactions and materials with some of the most exciting current and future applications.

Technology for Humanitarian Action Kevin M. Cahill. 2005 Humanitarian workers around the world struggle under dangerous conditions. Yet many do not have the technological tools readily available elsewhere to help them realize their mission to provide essential services and save lives. This book, the fruit of a historic conference, is a practical guide to current technologies that can help relief and humanitarian aid workers succeed. Designed to facilitate needed technology transfer to the humanitarian sector, the essays focus on areas where technology is underused and predict where new technological advances may be applied to relief efforts. The essays cover essential areas: communications technology and infrastructure support and security. They describe how such technologies as personal identification and tagging systems, software radios, wireless networks, and computer-aided language translation can promote safety and manage large groups of people. Other essays outline new technological solutions to such challenges as mine removal, water purification, and energy generation. The contributors are: Kevin M. Cahill, Frank Fernandez, C. Kumar Patel, Paul J. Kolodzy, Joseph Mitola III, Victor Zue, Jaime G. Carbonell, Stephen Squires, Joseph V. Braddock, Arthur L. Lerner-Lam, Ralph James, William L. Warren, and Regina E. Dugan.

Lithium-ion Batteries .2019 This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an overview about the latest trends of lithium-ion batteries research. This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-generated content and to find answers to the manifold questions on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and domain experts, about the future opportunities, challenges and limitations of this technology.--Publisher's website.

Bioaerosols Janet Macher, American Conference of Governmental Industrial Hygienists. 1999 Expanding far beyond its predecessor, this text offers a comprehensive guide to the assessment and control of bioaerosols in the full range of contemporary workplaces. Although the indoor environment remains a focus of concern, much of the information in this publication has application beyond office environments. The prominence of saprophytic microorganisms remains; however, more attention has been given to other important biological agents (e.g., arthropod and animal allergens, infectious agents, and microbial volatile organic compounds). In addition, fuller descriptions are provided for microbial toxins and cell wall components that may cause health effects

Dust Control Handbook for Industrial Minerals Mining and Processing Andrew B. Andrew B. Cecala, Andrew D. Andrew D. O'Brien. 2015-05-09 Throughout the mining and processing of minerals, the mined ore undergoes a number of crushing, grinding, cleaning, drying, and product sizing operations as it is processed into a marketable commodity. These operations are highly mechanized, and both individually and collectively these processes can generate large amounts of dust. If control technologies are inadequate, hazardous levels of respirable dust may be liberated into the work environment, potentially exposing workers. Accordingly, federal regulations are in place to limit the respirable dust exposure of mine workers. Engineering controls are implemented in mining operations in an effort to reduce dust generation and limit worker exposure.

Advancing Quantitative Methods in Second Language Research Luke Plonsky. 2015-07-03 *Advancing Quantitative Methods in Second Language Research* is the first hands-on guide to conducting advanced research methods in the fields of applied linguistics and second language studies. While a number of texts discuss basic quantitative research methodology, none focus exclusively on providing coverage of alternative advanced statistical procedures in second language studies from a practical approach. The text is bookended by discussions of these advanced procedures in the larger context of second language studies, debating their strengths, weaknesses, and potential for further research; the remaining chapters are how-to sections, each chapter following the same organization, on a wide variety of advanced research methods. By offering much-needed coverage on advanced statistical concepts and procedures, with an eye toward real-world implementation, *Advancing Quantitative Methods in Second Language Research* enhances the methodological repertoire of graduate students and researchers in applied linguistics and second language studies. For additional content, visit: <http://oak.ucc.nau.edu/ldp3/AQMSLR.html>

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