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KEY=CHEMISTRY - AGUIRRE ALANA

Department of Defense Dictionary of Military and Associated Terms

World Economic Situation and Prospects 2020

United Nations This is the United Nations definitive report on the state of the world economy, providing global and regional economic outlook for 2020 and 2021. Produced by the Department of Economic and Social Affairs, the five United Nations regional commissions, the United Nations Conference on Trade and Development, with contributions from the UN World Tourism Organization and other intergovernmental agencies.

Flow Cytometry and Cell Sorting

Springer Science & Business Media The analysis and sorting of large numbers of cells with a fluorescence-activated cell sorter (FACS) was first achieved some 30 years ago. Since then, this technology has been rapidly developed and is used today in many laboratories. A Springer Lab Manual Review of the First Edition: "This is a most useful volume which will be a welcome addition for personal use and also for laboratories in a wide range of disciplines. Highly recommended." CYTOBIOS

Antarctic Climate Change and the Environment

A Contribution to the International Polar Year 2007-2008

The European Blood and Marrow Transplantation Textbook for Nurses

Under the Auspices of EBMT

Springer This book is open access under a CC BY 4.0 license. This textbook, endorsed by the European Society for Blood and Marrow Transplantation (EBMT), provides adult and paediatric nurses with a full and informative guide covering all aspects of transplant nursing, from basic principles to advanced concepts. It takes the reader on a journey through the history of transplant nursing, including essential and progressive elements to help nurses improve their knowledge and benefit the patient experience, as well as a comprehensive introduction to research and auditing methods. This new volume specifically intended for nurses, complements the ESH-EBMT reference title, a popular educational resource originally developed in 2003 for physicians to accompany an annual training course also serving as an educational tool in its own right. This title is designed to develop the knowledge of nurses in transplantation. It is the first book of its kind specifically targeted at nurses in this specialist field and acknowledges the valuable contribution that nursing makes in this area. This volume presents information that is essential for the education of nurses new to transplantation, while also offering a valuable resource for more experienced nurses who wish to update their knowledge.

Pregnancy Day By Day

Penguin The complete guide to pregnancy, day-by-day No other pregnancy book provides this level of detail, allied with such extraordinary photographs, 3D scans and illustrations which reveal in unprecedented clarity exactly what is happening to you and your baby every single day. From early fetal development to how your hormones prepare you for birth, learn from world-class experts.

Plus, obstetricians, midwives and parents advise on your baby's development, medical matters, your changing body, diet, fitness and much more. A special hour-by-hour rundown of what to expect during and immediately after birth, plus further reassurance for the first two weeks of your baby's life, will give a helping hand through the culmination of your pregnancy, from pain relief to those first intimate and unique moments between you and your child.

Advances in Chitin/Chitosan Characterization and Applications

MDPI Functional advanced biopolymers have received far less attention than renewable biomass (cellulose, rubber, etc.) used for energy production. Among the most advanced biopolymers known is chitosan. The term chitosan refers to a family of polysaccharides obtained by partial de-N-acetylation from chitin, one of the most abundant renewable resources in the biosphere. Chitosan has been firmly established as having unique material properties as well as biological activities. Either in its native form or as a chemical derivative, chitosan is amenable to being processed—typically under mild conditions—into soft materials such as hydrogels, colloidal nanoparticles, or nanofibers. Given its multiple biological properties, including biodegradability, antimicrobial effects, gene transfectability, and metal adsorption—to name but a few—chitosan is regarded as a widely versatile building block in various sectors (e.g., agriculture, food, cosmetics, pharmacy) and for various applications (medical devices, metal adsorption, catalysis, etc.). This Special Issue presents an updated account addressing some of the major applications, including also chemical and enzymatic modifications of oligos and polymers. A better understanding of the properties that underpin the use of chitin and chitosan in different fields is key for boosting their more extensive industrial utilization, as well as to aid regulatory agencies in establishing specifications, guidelines, and standards for the different types of products and applications.

Bangladesh II: Climate Change Impacts, Mitigation and Adaptation in Developing Countries

Springer Nature This volume aims to develop a framework for disaster and climate risk resilient livelihood system in Bangladesh using a policy oriented approach. It highlights the possible impacts of climate change on groundwater based irrigation in the country. Climate change is one of biggest challenges to society. It can lead to serious impacts on production, life and environment on a global scale. Higher temperatures and sea level rise will cause flooding and water salinity problems which will bring about negative effects on agriculture and high risks to industry and socio-economic systems in the future. Climate change will lead to many changes in global development and security especially energy, water, food, society, job, diplomacy, culture, economy and trade. The Intergovernmental Panel on Climate Change (IPCC) defines climate change as: "Any change in climate over time, whether due to natural variability or as a result of human activity." Global climate change has emerged as a key issue in both political and economic arenas. It is an increasingly questioned phenomenon, and progressive national governments around the world have started taking action to respond to these environmental concerns.

Amazing KITCHEN CHEMISTRY Projects

You Can Build Yourself

Nomad Press In Amazing Kitchen Chemistry Projects You Can Build Yourself, kids ages 9 and up will experiment with kitchen materials to discover chemistry. Readers will learn about atoms, molecules, solids, liquids, gases, polymers, the periodic table, the important history of science, and much more. Along the way, they'll make goop, cause chemical reactions, and create delicious treats, and all of it will illustrate important chemistry concepts. Amazing Kitchen Chemistry Projects is a fun and exciting way for young readers to learn all about chemistry and become scientists right in the kitchen.

Textbook of Pediatric Gastroenterology, Hepatology and Nutrition

A Comprehensive Guide to Practice

Springer This textbook provides a comprehensive and state-of-the-art overview of the major issues specific to the field of pediatric gastroenterology, hepatology, and nutrition. The first part of the book, Gastroenterology and Nutrition, presents in a systematic way the overall scope of issues encountered by children (newborn to teenagers) suffering from disorders of the gastrointestinal tract, pancreas and/or presenting nutritional issues. These chapters are structured in logical sections to facilitate consultation and include major topics ranging from congenital disorders to gastrointestinal problems of the newborn, infectious diseases of the gastrointestinal tract, and approach to nutritional problems in the various pediatric ages. The second part of the book, Hepatology, is articulated in a series of chapters which present a comprehensive review of congenital and acquired disorders of the biliary tract and liver. This section also includes a critical analysis of available diagnostic and therapeutic procedures and future perspectives. Written by experts in the field, Textbook of Pediatric Gastroenterology, Hepatology and Nutrition: A Comprehensive Guide to Practice constitutes a much needed, innovative resource combining updated, reliable and comprehensive information with agile consultation for a streamlined

approach to the care of children with such disorders.

21st Century Technologies Promises and Perils of a Dynamic Future

Promises and Perils of a Dynamic Future

OECD Publishing This book reviews the extraordinary promise of technological advances over the next twenty years or so, and assesses some of the key issues -- economic, social, environmental, ethical -- that decision-makers in government, business and society will face in the decades ahead.

Rules of Thumb for Bank Solvency Stress Testing

International Monetary Fund Rules of thumb can be useful in undertaking quick, robust, and readily interpretable bank stress tests. Such rules of thumb are proposed for the behavior of banks' capital ratios and key drivers thereof—primarily credit losses, income, credit growth, and risk weights—in advanced and emerging economies, under more or less severe stress conditions. The proposed rules imply disproportionate responses to large shocks, and can be used to quantify the cyclical behaviour of capital ratios under various regulatory approaches.

Performance Tuning for IBM Security Directory Server

IBM Redbooks In today's highly connected world, directory servers are the IT cornerstone of many businesses. These components of the corporate infrastructure are the foundation of authentication systems for internal and, more commonly, external user populations. Managing a directory server with several hundred internal users is not all that difficult. However, managing a directory server with several million external users in all 24 time zones throughout the world is a much more daunting task. IBM® Security Directory Server software can handle millions of entries, given the right architecture, configuration, and performance tuning. However, that tuning can differ greatly from tuning for a smaller server with only a few hundred thousand entries. Managing and tuning a directory server of this size requires a change in mindset. Tuning and performance must be a focus even before the hardware is ordered. A proactive approach must be taken after installation also, including the pretuning steps to better interface with other products to make installations and migrations successful, and then regular maintenance to keep the directory running smoothly. This IBM Redbooks® publication is the accumulation of lessons learned in many different real-world environments, including a 24-server fault tolerant configuration with more than 300 million entries. The authors pooled their knowledge and resources to provide the most comprehensive performance view possible, from hardware to software, sort heaps to buffer pools, and table cardinalities. In large directory server deployments, use this document as a guide for how to get the right fit for your environment.

Virtual Currencies and Beyond

Initial Considerations

International Monetary Fund New technologies are driving transformational changes in the global financial system. Virtual currencies (VCs) and the underlying distributed ledger systems are among these. VCs offer many potential benefits, but also considerable risks. VCs could raise efficiency and in the long run strengthen financial inclusion. At the same time, VCs could be potential vehicles for money laundering, terrorist financing, tax evasion and fraud. While risks to the conduct of monetary policy seem less likely to arise at this stage given the very small scale of VCs, risks to financial stability may eventually emerge as the new technologies become more widely used. National authorities have begun to address these challenges and will need to calibrate regulation in a manner that appropriately addresses the risks without stifling innovation. As experience is gained, international standards and best practices could be considered to provide guidance on the most appropriate regulatory responses in different fields, thereby promoting harmonization and cooperation across jurisdictions.

AIX V6 Advanced Security Features Introduction and Configuration

IBM Redbooks AIX Version 6.1 provides many significant new security technologies and security enhancements. The purpose of this IBM Redbooks publication is to highlight and explain the security features at the conceptual level, as well as provide practical examples of how they may be implemented. Some features are extensions of features made available in prior AIX releases, and some are new features introduced with AIX V6. Major new security enhancements will be introduced with AIX V6 in 2007: - Trusted AIX (Multilevel Security) - Role Based Access Control (RBAC) - Encrypted File System - Trusted Execution - AIX Security Expert Enhancements This IBM Redbooks publication will provide a technical introduction to these new enhancements. The topics are both broad and very complex. This book will serve as an initial effort in describing all of the enhancements together in a single volume to the security/system hardening oriented audience.

Left Out of the Bargain

Settlements in Foreign Bribery Cases and Implications for Asset Recovery

World Bank Publications It is a conservative estimate that every year, through corruption, between 20 billion dollars and 40 billion dollars are diverted from developing countries and find safe haven in foreign jurisdictions. In several countries that are party to the Organization for Economic Co-operation and Development (OECD) anti-bribery convention, a very high proportion of cases of foreign bribery and related offenses have been resolved short of a full trial. Anticorruption practitioners and policy makers in countries where officials were allegedly bribed have (along with other interested stakeholders) therefore raised concerns about whether settlements might impede their own criminal or enforcement investigations and affect the liability of multinational companies in third countries. This study seeks to fill knowledge gap by: (i) informing policy makers and practitioners about the frameworks for settlements in various legal systems, (ii) examining settlements in practice and their implications for international cooperation, and (iii) analyzing how settlements relate to asset recovery in foreign bribery cases. An additional goal is to inform the general public (including civil society organizations) about these frameworks. This study describes and analyzes, both qualitatively and quantitatively, settlements in cases of foreign bribery and related offenses, and their implications for international cooperation and asset recovery. This report is structured as follows: chapter one adopts a broad definition of settlements as various procedures short of trials and analyzes the legal frameworks in a number of civil and common law countries. Chapter two traces the general trends and developments in settlements and considers the rationale for settlements. Chapter three analyzes the impact of settlements in one jurisdiction on pending and future investigations in other countries. Chapter four explores the link between asset recovery and settlements through the lens of United Nations Convention against Corruption (UNCAC). Chapter five offers conclusions. Chapter six presents detailed summaries of 14 significant cases.

Performance-related Pay Policies for Government Employees

OECD Publishing This report presents an overview of performance-related pay policies (PRP) for government employees in selected OECD member countries over the past two decades. Both the strengths and the weaknesses of PRP policies are assessed. The report explores ...

Working with Indigenous Knowledge

A Guide for Researchers

IDRC This guidebook zeros in on what indigenous knowledge can contribute to a sustainable development strategy that accounts for the potential of the local environment and the experience and wisdom of the indigenous population. Through an extensive review of field examples as well as current theory and practice, it provides a succinct yet comprehensive review of indigenous knowledge research and assessment. Working with Indigenous Knowledge will contribute to the improved design, delivery, monitoring, and evaluation of any program of research and will appeal to both the seasoned development professional as well as the novice or student just beginning a research career.

The EBMT Handbook

This Open Access edition of the European Society for Blood and Marrow Transplantation (EBMT) handbook addresses the latest developments and innovations in hematopoietic stem cell transplantation and cellular therapy. Consisting of 93 chapters, it has been written by 175 leading experts in the field. Discussing all types of stem cell and bone marrow transplantation, including haplo-identical stem cell and cord blood transplantation, it also covers the indications for transplantation, the management of early and late complications as well as the new and rapidly evolving field of cellular therapies. This book provides an unparalleled description of current practices to enhance readers' knowledge and practice skills. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Neuroscience

For over 25 years, Purves Neuroscience has been the most comprehensive and clearly written neuroscience textbook on the market. This level of excellence continues in the 6th Edition, with a balance of animal, human, and clinical studies that discuss the dynamic field of neuroscience from cellular signaling to cognitive function.

Technology Application in the Tourism and Hospitality Industry of Bangladesh

Springer Nature

Eco-Friendly Textile Dyeing and Finishing

Years of human ignorance has diminished our natural resources and aged our planet. Now, people are making an effort to change the way they are treating the planet. Being more environmentally conscious about the impact materials used for fashion have on our planet is one-way designers can reduce waste and help enable a better world. By going eco-friendly can be less harmful to our natural resources. Not all fashion is following this eco-friendly trend, but more designers are embracing the trend toward eco-fashion than ever before. If the entire fashion industry became eco-friendly, it would make a huge difference for future generations because the fashion industry employs over a billion people globally. There is need for eco-friendly wet processing that is sustainable and beneficial methods. Number of sustainable practices has been implemented by various textile processing industries such as Eco- friendly bleaching; Peroxide bleaching; Eco-friendly dyeing and Printing; Low impact dyes; Natural dyes; Azo Free dyes; Phthalates Free Printing. There are a variety of materials considered "environmentally-friendly" for a variety of reasons. The industry is desperately in the need of newer and very efficient dyeing/finishing and functional treatments of textiles. There is growing awareness and readiness to adapt new perspective on industrial upgradation of Cleaner Production Programme, such new technologies help enterprises achieve green production and cost reduction at the same time. Green Production has become necessary for enterprises under the upgrade and transformation policy. The book Eco-Friendly Textile Dyeing and Finishing covers topics in the area of sustainable practices in textile dyeing and finishing.

Global Virology I - Identifying and Investigating Viral Diseases

Springer This book provides trajectories and illustrations of viruses that have catapulted into the global arena (linked to humans, animals, and vectors) due to human behaviors in recent years, as well as viruses that have already shown expansion among humans, animals, and vectors just a few decades ago. Topics in the current book include: vaccines environmental impact emerging virus transmission Filovirus (Ebola) hemorrhagic fevers flaviviruses Dengue evasion papillomaviruses Hepatitis C Nipah virus giant viruses hantaviruses bunyaviruses encephalitides West Nile virus Zika virus XMRV henipaviruses human respiratory syncytial virus influenza A virus several aspects of HIV-1

Girls' Education in the Twenty-first Century

World Bank Publications Persuasive evidence demonstrates that gender equality in education is central to economic development. Despite more than two decades of accumulated knowledge and evidence of what works in improving gender equality, progress on the ground remains slow and uneven across countries. What is missing? Given that education is a critical path to accelerate progress toward gender equality and the empowerment of women, what is holding us back? These questions were discussed at the global symposium Education: A Critical Path to Gender Equality and Women's Empowerment, which was sponsored by the World Bank in October 2007. Girls' Education in the 21st Century is based on background papers developed for the symposium. The book's chapters reflect the current state of knowledge on education from a gender perspective and highlight the importance of, and challenges to, female education, as well as the interdependence of education and development objectives. The last chapter presents five strategic directions for advancing gender equality in education and their implications for World Bank operations. Girls' Education in the 21st Century will be of particular interest to researchers, educators, school administrators, and policy makers at the global, national, regional, and municipal levels.

Shape Memory Polymers

Fundamentals, Advances and Applications

Smithers Rapra Shape-memory polymers (SMP) are a unique branch of the smart materials family which are capable of changing shape on-demand upon exposure to external stimulus. The discovery of SMP made a significant breakthrough in the developments of novel smart materials for a variety of engineering applications, superseded the traditional materials, and also influenced the current methods of product designing. This book provides the latest advanced information of on-going research domains of SMP. This will certainly enlighten the reader to the achievements and tremendous potentials of SMP. The basic fundamentals of SMP, including shape-memory mechanisms and mechanics are described. This will aid reader to become more familiar with SMP and the basic concepts, thus guiding them in undergoing independent research in the SMP field. The book also provides the reader with associated challenges and existing application problems of SMP. This could assist the reader to focus more on these issues and further exploit their knowledge to look for innovative solutions. Future outlooks of SMP research are discussed as well. This book should prove to be extremely useful for academics, R&D managers, researcher scientists, engineers, and all others related to the SMP research.

Marine Biotoxins

Food & Agriculture Org. This paper provides an extensive review of different aspects of five shellfish-poisoning syndromes (paralytic, diarrhoeic, amnesic, neurologic and azapiracid), as well as one fish-poisoning syndrome (ciguatera fish poisoning), and discusses in detail the causative toxins produced by marine organisms, chemical structures and analytical methods of the toxins, habitat and occurrence of the toxin-producing organisms, case studies and existing regulations. Based on this analysis, risk assessments are carried out for each of the toxins, and recommendations are elaborated to improve the management of these risks in order to reduce the harmful effect of these toxins on public health.

Islamic Cupping & Hijamah

A Complete Guide

EDI Publishers This text is the most complete and up to date book on Hijamah at this time, it cuts straight into the subject and quenches the curiosity of the reader whether it be a layperson, prospective patient or seasoned medical professional. Dr Latib's experience and insight into Hijamah and traditional medicine as well as his rigor in correlating it with scientific findings is reflected throughout this guide. He shares with us the complete and comprehensive depth to this topic and empowers the reader in understanding and applying the concepts, rules and guidelines regarding Hijamah in order to improve general health and benefit from this oft misunderstood and sometimes feared medical procedure

Year Book of the Academy

Globalization of Management Education

Changing International Structures, Adaptive Strategies, and the Impact on Institutions : Report of the AACSB International Globalization of Management Education Task Force

Emerald Group Publishing Rarely, if ever, have business schools experienced change as far-reaching and powerful as during the current wave of globalization. Understanding these changes, and their implications, was the charge given to an AACSB Task Force on Globalization of Management Education. In this comprehensive report, the Task Force explores broad globalization trends in management education that command the attention of any individual or institution striving to navigate in today's environment. Then, by exploring individual business school strategies, it provides valuable insights into how business schools can and should respond. The report aims to encourage and guide business schools to embrace globalization in ways that are mission-appropriate, manageable given available resources, and meaningful to the stakeholders being served. For organizations serving business schools, it will be a catalyst for action that elevates and improves business schools' capabilities. Readers will be left with the conviction that great opportunities exist for business schools to move from keeping pace with the sweeping changes of globalization, to leading the way.

The Foundations of Educational Effectiveness

Emerald Group Publishing Offers an analysis of the knowledge base on educational effectiveness. This book defines the concepts of school and educational analysis. It demonstrates the scope and range of application of the concept of school effectiveness. It focuses on modelling and theoretical interpretation of educational effectiveness.

Bangladesh I: Climate Change Impacts, Mitigation and Adaptation in Developing Countries

Springer The aim of this book is to provide information to scientists and local government to help them better understand the particularities of the local climate. Climate change is one of the biggest challenges to society. It can lead to serious impacts on production, life and environment on a global scale. Higher temperatures and sea level rise will cause flooding and water salinity problems which bring about negative effects on agriculture and high risks to industry and socio-economic systems in the future. Climate change leads to many changes in global development and security, especially energy, water, food, society, job, diplomacy, culture, economy and trade. The Intergovernmental Panel on Climate Change (IPCC) defines climate change as: "Any change in climate over time, whether due to natural variability or as a result of human activity." Global climate change has emerged as a key issue in both political and economic arenas. It is an increasingly questioned phenomenon, and progressive national governments around the world have started taking action to respond to these environmental concerns.

Handbook of Contact Mechanics

Exact Solutions of Axisymmetric Contact Problems

Springer This open access book contains a structured collection of the complete solutions of all essential axisymmetric contact problems. Based on a systematic distinction regarding the type of contact, the regime of friction and the contact geometry, a multitude of technically relevant contact problems from mechanical engineering, the automotive industry and medical engineering are discussed. In addition to contact problems between isotropic elastic and viscoelastic media, contact problems between transversal-isotropic elastic materials and functionally graded materials are addressed, too. The optimization of the latter is a focus of current research especially in the fields of actuator technology and biomechanics. The book takes into account adhesive effects which allow access to contact-mechanical questions about micro- and nano-electromechanical systems. Solutions of the contact problems include both the relationships between the macroscopic force, displacement and contact length, as well as the stress and displacement fields at the surface and, if appropriate, within the half-space medium. Solutions are always obtained with the simplest available method - usually with the method of dimensionality reduction (MDR) or approaches which use the solution of the non-adhesive normal contact problem to solve the respective contact problem.

The principles of good manual handling

achieving a consensus

This report presents the outcome of an exercise carried out to establish scientifically-based principles for manual handling training, both for conventional (two-handed, symmetrical) lifting and for non- standard lifting, where the conventional technique is inapplicable

Toxicology Studies

Cells, Drugs and Environment

BoD - Books on Demand The increased exposure to toxins, toxicants and novel drugs has promoted toxicology to become one of the most important areas of research with emerging innovative toxicity testing protocols, techniques, and regulation being placed. Since the bioactivation of many toxins and toxicants and its consequences on human health are not clearly known, this book offers a quick overview of cellular toxicology through the cell, drug and environmental toxicity. This book does not strive to be comprehensive but instead offers a quick overview of principle aspects of toxins and toxicants in order to familiarize the key principles of toxicology. The book is divided into three main sections,; the first one discusses the role of mitochondrial dysfunction, oxidative stress and mitochondrial drug development. The second and third sections bring light to forensic toxicology and drug poisoning followed by environmental toxicity.

Eye emergency manual

an illustrated guide

Key Characteristics of Effective Schools

A Review of School Effectiveness Research

This book explores the key characteristics that make a school effective.

Principles of Legislative and Regulatory Drafting

Bloomsbury Publishing Principles of Legislative and Regulatory Drafting provides a succinct guide to an area of law and practice which has previously been poorly served by English textbooks. It explains how drafters can convert legislative and regulatory policy into a form which has the desired effect in the most direct and accessible way. On the basis that those who seek to communicate must be conscious of how their words will be read, it includes a chapter on interpretation. Other chapters include the nature of drafting instructions (including ethical considerations), the general principles of drafting, the protection of human rights, the creation of statutory corporations and schemes of licensing, subordinate legislation, and the creation of criminal offences. The principles and skills of drafting are very largely common to both the legislative and regulatory fields, but the book draws attention to areas in which significant differences arise. Extracts from the Interpretation Act 1978 and the European Convention on Human Rights are included as Appendices. The book provides an invaluable introduction for those engaged in legislative and regulatory drafting, while also being useful to anyone who is interested in the creation and interpretation of legislative and regulatory texts.

The Jinn and Human Sickness

Remedies in the Light of the Qur'aan and Sunnah

PET/CT Atlas on Quality Control and Image Artefacts

Positron emission tomography/computed tomography (PET/CT), as any other imaging modality, is acceptable for routine clinical and research applications only if technical pitfalls can be avoided. Artefacts from incorrect or sub-optimal acquisition procedures should be recognized and, if possible, corrected retrospectively and the resulting image information interpreted correctly, which entails an appreciation of variants of the represented image information. This publication provides guidance on the physics and technical aspects behind PET and PET/CT image distortions. Cases are presented to provide nuclear medicine and radiology professionals with an assortment of examples of possible image distortions and errors in order to support a correct image interpretation. Nearly 70 typical PET and PET/CT cases, comprising image sets and cases, have been collected in this volume, all catalogued and augmented with explanations as to the causes of, and solutions to, each individual image problem. The atlas will prove useful to physicists, physicians, technologists, and service engineers in the clinical field.

The Human Rights of Migrants

International Organization for Migration Includes statistics.