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This book presents a thorough review of the state-of-knowledge and recent innovations in the synthesis of pure and improved grades of fly ash zeolites (FAZ). Addressing improvements to conventional methods, it also showcases a novel technique for the synthesis of high cation exchangers from fly ash and detailed characterization techniques for the products obtained. In addition, it examines in detail various areas of specific applications of fly ash zeolites. Over the years, several methods such as hydrothermal, fusion prior to hydrothermal, microwave assisted hydrothermal and molten salt techniques for producing FAZ have been developed. However, one-step and two-step reactions between the fly ash and alkali usually generate alkaline wastes that may cause environmental contamination. In addition, the separation of FAZ from the partially activated fly ash (the impurities) remains a major concern for researchers and industrialists alike. /divIn view of these challenges, this book presents a novel technique for three-step activation (TSA), which focuses on recycling the fly ash-NaOH-water reaction by-products until zeolitic residue is formed. The FAZ (the final residue after third step reactions) synthesized in this manner exhibits exceptionally high cation exchange capacity, specific surface area and pore area. This book offers a comprehensive compendium of reading material on fly ash and its recycled product, the zeolites. Students

at both undergraduate and graduate levels, researchers, and practicing engineers will all find this book to be a valuable guide in their respective fields.

The book is a comprehensive, self-contained introduction to the mathematical modeling and analysis of infectious diseases. It includes model building, fitting to data, local and global analysis techniques. Various types of deterministic dynamical models are considered: ordinary differential equation models, delay-differential equation models, difference equation models, age-structured PDE models and diffusion models. It includes various techniques for the computation of the basic reproduction number as well as approaches to the epidemiological interpretation of the reproduction number. MATLAB code is included to facilitate the data fitting and the simulation with age-structured models.

Providing a methodology for evaluating indoor thermal comfort with a focus on children, this book presents an in-depth examination of children's perceptions of comfort. Divided into two sections, it first presents a history of thermal comfort, the human body and environmental parameters, common thermal comfort indexes, and guidelines for creating questionnaires to assess children's perceptions of indoor thermal comfort. It then describes their understanding of the concepts of comfort and energy, and the factors that influence that perception. In this context, it takes into account the psychological and pedagogical aspects of thermal comfort judgment, as well as architectural and environmental characteristics and equips readers with the knowledge needed to effectively investigate

children's perspectives on environmental ergonomics. The research field of indoor thermal comfort adopts, on the one hand, physical parameter measurements and comfort indexes (e.g. Predicted Mean Vote (PMV) or adaptive comfort), and on the other, an ergonomic assessment in the form of questionnaires. However the latter can offer only limited insights into the issue of comfort, as children often use different terms than adults to convey their experience of thermal comfort. The book aims to address this lack of understanding with regard to children's perceptions of indoor thermal comfort. The book is intended for HVAC engineers and researchers, architects and researchers interested in thermal comfort and the built environment. It also provides a useful resource for environmental psychologists, medical and cognitive researchers.

Vols. for 1970-71 includes manufacturers' catalogs. Written by 30 authors from all over the world, this book provides a unique overview of exciting discoveries and surprising developments in human genetics over the last 50 years. The individual contributions, based on seven international workshops on the history of human genetics, cover a diverse range of topics, including the early years of the discipline, gene mapping and diagnostics. Further, they discuss the status quo of human genetics in different countries and highlight the value of genetic counseling as an important subfield of medical genetics.

The book captures recent developments in India's business environment and attempts to provide a clear and crisp analysis of the same from the point of view of

facilitating corporate adjustment. The book lays emphasis on the working of the economy and the operational mechanism of macro-economic policies as pre-requisites for a proper understanding of the dynamics of business environment. It seeks to strengthen the skills of the student and the future manager to understand, analyse, and predict business environment and draw inferences and implications for corporate adjustment. Apart from comprehensive treatment of the latest curriculum, it includes many new topics of high contemporary relevance like Key indicators of Macro-environment; Risk in Business Environment; How Monetary Policy Works; The Operation of Fiscal Policy; Monetary and Credit Policy Environment; New Competition Law; Competitive Environment; Technological Environment; Corporate Governance; Money Market; The Services Sector and Globalization of the Economy. The following are the other distinctive characteristics of the book: v The matter is presented in a clear, crisp and accessible style. v Obsolete and irrelevant data are carefully avoided and only brief, latest and authentic data (up to the year 2003) is used. v Concept and illustration boxes are provided throughout the text to facilitate proper understanding. v Apart from review questions, practical and field assignments are added to each chapter. v The concepts and terms are highlighted throughout the text and listed at the end of each chapter. v Each chapter is followed by a focussed and latest supplementary reading list for more serious students.

The open source PostgreSQL database is soaring in

popularity, as thousands of database and web professionals discover its powerful features, transaction support, performance, and industrial-strength scalability. In this book, a founding member of the PostgreSQL development team introduces everything you need to know to succeed with PostgreSQL, from basic SQL commands through database administration and optimization. PostgreSQL assumes no previous database expertise: it establishes a firm foundation of basic concepts and commands before turning to PostgreSQL's advanced, innovative capabilities. Bruce Momjian walks readers step-by-step from their first database queries through the complex queries needed to solve real-world problems. He presents proper query syntax, then explores the value and use of each key SQL commands in working applications. Learn to manipulate and update databases, customize queries, work with SQL aggregates, use joins, combine SELECTs with subqueries, work with triggers and transactions, import and export data, use PostgreSQL query tools, and more. Discover PostgreSQL techniques for server-side programming and multi-user control, and master PostgreSQL's interfaces to C, C++, ODBC, JDBC, Perl, and Tcl/TK. You'll also find detailed coverage of PostgreSQL administration, including backups, troubleshooting, and access configuration.

This volume details the importance of multiple experimental techniques and computational methods needed to obtain the comprehensive picture of protein complex structure, dynamics and assembly afforded by the emerging field of integrative structural biology. Chapters guide readers through the broad spectrum of approaches required for a complete representation of protein complexes, including expression and purification, experimental characterization of structure and assembly, and computational methods for identifying protein complexes and modelling their assembly. Written in

the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Protein Complex Assembly: Methods and Protocols aims to ensure successful results in the further study of this vital field.

In the last four decades of the twentieth century the use of sweetpotato was diversified beyond their classification as subsistence, food security, and famine-relief crop. In developing countries they serve both as human food and for feeding livestock. In Western countries they appeal to health conscious consumers because of their nutritional aspects. The sweetpotato is very high in nutritive value, and merits wider use on this account alone. The book has 2 parts. A general one giving up-to-date information on the history, botany, cultivars, genetic engineering, propagation, diseases and pests, nutritional data and marketing; and a second part presenting data on sweetpotato growing practices in different areas of the world. The information should be useful to researchers, practitioners and crop administrators in different countries.

An important consideration for energy-efficient buildings is their primary energy requirements over the entire life cycle. How to determine this? What integrative factors influence the performance of a healthy and sustainable building? This, while it may be important for clients and architects to know, is frequently not very transparent. This book has been written to assist with clarifying target criteria and expanding horizons when it comes to ecological buildings. It is meant as a handbook and source of reference for clients, architects, planners and building operators, to provide them with pertinent information about their design, construction and

operation: how to do this in the most energy-efficient and economical manner? Also, there is feedback and documentation about prominent buildings like the Hamburg Dockland or the Landesbank Baden-Wuerttemberg in Stuttgart. They provide excellent architectural examples for detailed construction and design solutions. Further, there are insightful interviews with architects and clients about many important buildings, which help turn this book into an integrated source of reference for sustainable architecture. - A Guideline for Planning, Construction and Operation of sustainable Buildings - A source of reference for clients, architects, planners and building operators - Innovative architectural examples with sustainable concepts and design Fork trucks, Reach trucks, High-lift trucks, Industrial trucks, Materials handling equipment, Materials handling components, Vehicle components, Load-supporting devices, Mechanical components, Hazards, Occupational safety, Equipment safety, Transportation safety, Industrial accidents, Environment (working), Working conditions (physical), Control devices, Power transmission systems, Pipework systems, Electrical equipment, Lifting equipment, Hydraulic equipment, Stability, Roll-over protective structures, Protective cabs, Verification, Performance testing, Dynamic testing, Instructions for use, Handbooks, Marking, Mechanical testing, Type testing, Testing conditions, Test equipment, Formulae (mathematics), Symbols

This open access book collects ten essays that look at intra-regional migration in the Southern Balkans from the late Ottoman period to the present. It examines forced as well as voluntary migrations and places these movements within their historical context, including ethnic cleansing, population exchanges, and demographic engineering in the service of nation-building as well as more recent labor migration due to globalization. Inside, readers will find the work of international

experts that cuts across national and disciplinary lines. This cross-cultural, comparative approach fully captures the complexity of this highly fractured, yet interconnected, region. Coverage explores the role of population exchanges in the process of nation-building and irredentist policies in interwar Bulgaria, the story of Thracian refugees and their organizations in Bulgaria, the changing waves of migration from the Balkans to Turkey, Albanian immigrants in Greece, and the diminished importance of ethnic migration after the 1990s. In addition, the collection looks at such under-researched aspects of migration as memory, gender, and religion. The field of migration studies in the Southern Balkans is still fragmented along national and disciplinary lines. Moreover, the study of forced and voluntary migrations is often separate with few interconnections. The essays collected in this book bring these different traditions together. This complete portrait will help readers gain deep insight and better understanding into the diverse migration flows and intercultural exchanges that have occurred in the Southern Balkans in the last two centuries.

Clostridia have a high biotechnological potential, although they are generally still regarded more as a group of pathogenic microorganisms. They undertake a broad variety of biocatalytic reactions some of which are unique and of use in the chemical and biotechnology industry for the production of chemicals or for biopharmaceutical purposes. Even some of the clostridial toxins are of medical relevance and can be used as therapeutic agents; The book presents the biology, pyhsiology, and genetics, including genome projects of Clostridia and highlights their potential for industrial and medical applications. It is mostly based on research

during the last decade which has brought significant progress in the field and outlines future perspectives of industrial interest.

Based on lecture notes of two summer schools with a mixed audience from mathematical sciences, epidemiology and public health, this volume offers a comprehensive introduction to basic ideas and techniques in modeling infectious diseases, for the comparison of strategies to plan for an anticipated epidemic or pandemic, and to deal with a disease outbreak in real time. It covers detailed case studies for diseases including pandemic influenza, West Nile virus, and childhood diseases. Models for other diseases including Severe Acute Respiratory Syndrome, fox rabies, and sexually transmitted infections are included as applications. Its chapters are coherent and complementary independent units. In order to accustom students to look at the current literature and to experience different perspectives, no attempt has been made to achieve united writing style or unified notation. Notes on some mathematical background (calculus, matrix algebra, differential equations, and probability) have been prepared and may be downloaded at the web site of the Centre for Disease Modeling (www.cdm.yorku.ca).

The ongoing digitisation of the literary papyri (and related technical texts like the medical papyri) is leading to new thoughts on the concept and shape of the "digital critical edition" of ancient documents. First of all, there is the need of representing any textual and paratextual feature as much as possible, and of encoding them in a

semantic markup that is very different from a traditional critical edition, based on the mere display of information. Moreover, several new tools allow us to reconsider not only the linguistic dimension of the ancient texts (from exploiting the potentialities of linguistic annotation to a full consideration of language variation as a key to socio-cultural analysis), but also the very concept of philological variation (replacing the mono-authorial view of an reconstructed archetype with a dynamic multitextual model closer to the fluid aspect of the textual transmission). The contributors, experts in the application of digital strategies to the papyrological research, face these issues from their own viewpoints, not without glimpses on parallel fields like Egyptology and Near Eastern studies. The result is a new, original and cross-disciplinary overview of a key issue in the digital humanities.

The new series "Microbiology Monographs" begins with two volumes on intracellular components in prokaryotes. In this first volume, "Inclusions in Prokaryotes", the components, labeled inclusions, are defined as discrete bodies resulting from synthesis of a metabolic product. Research on the biosynthesis and reutilization of the accumulated materials is still in progress, and interest in the inclusions is growing. This comprehensive volume provides historical background and comprehensive reviews of eight well-known prokaryotic inclusions. After providing an introduction to the Perl programming language, this helpful guide teaches computer networking using Perl. Topics discussed include ethernet network analysis, programming standard Internet

protocols, and exploring mobile agent programming. * Each chapter provides a general discussion of the technologies under consideration, the support for programming the technologies as provided by Perl, and implementations of working examples * Covers Mobile Agent Technology, which is set to become one of the "next big things" on the Internet * Further information is supplied, including a listing of Web and print resources, programming exercises, and tips to expand the reader's understanding of the material

Democracy in the South is the first international collaboration that draws attention to the complex problems of democratic consolidation across the majority world. Nine case studies, three each from Africa, Latin America and Asia, shed light on the contemporary challenges faced by democratizing countries, mostly from the perspective of emerging theorists working in their home countries.--Publisher's description.

Transport and transformation processes are key for determining how humans and other organisms are exposed to chemicals. These processes are largely controlled by the chemicals' physical-chemical properties. This new edition of the Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals is a comprehensive series in four volumes that serves as a reference source for environmentally relevant physical-chemical property data of numerous groups of chemical substances. The handbook contains physical-chemical property data from peer-reviewed

journals and other valuable sources on over 1200 chemicals of environmental concern. The handbook contains new data on the temperature dependence of selected physical-chemical properties, which allows scientists and engineers to perform better chemical assessments for climatic conditions outside the 20–25-degree range for which property values are generally reported. This second edition of the Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals is an essential reference for university libraries, regulatory agencies, consultants, and industry professionals, particularly those concerned with chemical synthesis, emissions, fate, persistence, long-range transport, bioaccumulation, exposure, and biological effects of chemicals in the environment. This resource is also available on CD-ROM

This book is written for professionals in developing countries, for occupational safety and health specialists, production engineers, managers and trade union representatives. The book links occupational safety and health with production and productivity, showing the positive relationship between good and safe working conditions and sustainable high productivity. The book makes use of research results, and is intended to be used in connection with training activities, but does not concentrate on research or training. The focus is action for change to eliminate or reduce risks at

workplaces.

This report describes for the first time the totality and evolution since the mid-1980s of the current-day immigration enforcement machinery. The report's key findings demonstrate that the nation has reached an historical turning point in meeting long-standing immigration enforcement challenges. The question is no longer whether the government is willing and able to enforce the nation's immigration laws, but how enforcement resources and mandates can best be mobilized to control illegal immigration and ensure the integrity of the nation's immigration laws and traditions.

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This edition approaches the subject of ergonomics with the aim of bringing benefits to the performance of tasks in work and domestic environments. This text embraces the concepts of designing tasks and environment for human comfort.

When faced with productivity problems in the workplace, engineers might call for better machines, and management might call for better-trained people, but ergonomists call for a better interface and better interaction between the user and the machine. Introduction to Ergonomics, 2nd Edition, provides a comprehensive introduction to ergonomics as the study of the relationship between people and their working environment. The author

presents evidence from field trials, studies and experiments that demonstrate the value of ergonomics in making the workplace safer, more error resistant, and compatible with users' characteristics and psychological and social needs. Evidence for the effectiveness of each topic is incorporated throughout the book as well, which helps practitioners to make the case for company investment in ergonomics. In addition, the author outlines international standards for ergonomics that influence engineering and design and pave the way for a more precise form of practice. Extensively revised and updated, this second edition explains the main areas of application, the science that underpins these applications, and demonstrates the cost-effectiveness of implementing the applications in a wide variety of work settings.

This book describes the prerequisites for the placing on the market and the safe use of machinery in compliance with the relevant EU Directives, especially the Machinery Directive 2006/42. It provides readers with high-level knowledge concerning the Essential Health and Safety Requirements (EHSR) that machinery must fulfill. The approach and principles of the Machinery Directive were most recently made worldwide acknowledged in the ILO code of practice on safe machinery, released in 2013. The book addresses that code, as well as providing valuable insight into other EU Product and Workplace legislation. Focusing on the key aspect of safe machinery, the “machinery safety risk assessment”,

which allows readers to better understand the more difficult aspects of risk assessments, the book equips readers to tackle problems at the manufacturing stage and in different use scenarios, introducing them to risk reduction techniques and functional safety aspects.

The ANC is a party-movement that draws on its liberation credentials yet is conflicted by a multitude of weaknesses, factions and internal succession battles. Booyesen constructs her analysis around the ANC's four faces of political power: organisation, people, political parties and elections, and policy and government? and explores how, since 1994, it has acted to continuously regenerate its power.

The topic of this book is known as dynamic scheduling, and is used to refer to three dimensions of project management and scheduling: the construction of a baseline schedule and the analysis of a project schedule's risk as preparation of the project control phase during project progress. This dynamic scheduling point of view implicitly assumes that the usability of a project's baseline schedule is rather limited and only acts as a point of reference in the project life cycle.

Consequently, a project schedule should especially be considered as nothing more than a predictive model that can be used for resource efficiency calculations, time and cost risk analyses, project tracking and performance measurement, and so on. In this book, the three dimensions of dynamic scheduling are highlighted in detail and are based on and inspired by a combination of academic research studies at Ghent University (www.ugent.be), in-company trainings at Vlerick

Business School (www.vlerick.com) and consultancy projects at OR-AS (www.or-as.be). First, the construction of a project baseline schedule is a central theme throughout the various chapters of the book, and is discussed from a complexity point of view with and without the presence of project resources. Second, the creation of an awareness of the weak parts in a baseline schedule is discussed at the end of the two baseline scheduling parts as schedule risk analysis techniques that can be applied on top of the baseline schedule. Third, the baseline schedule and its risk analyses can be used as guidelines during the project control step where actual deviations can be corrected within the margins of the project's time and cost reserves. The second edition of this book has seen corrections, additions and amendments in detail throughout the book. Moreover Chapter 15 on "Dynamic Scheduling with ProTrack" has been completely rewritten and extended with a section on "ProTrack as a research tool".

Filling a gap in our systematic knowledge of gold, this monograph covers the fundamental aspects, while also considering new applications of gold compounds in catalysis, as nanoparticles, and their potential application as luminescent compounds. Written by an eminent team of authors from academia, the book analyzes the current status of gold chemistry, its special characteristics, oxidation states and main type of complexes, before going on to look at the synthesis of supramolecular aggregates due to the formation of gold-gold, gold-metal interactions or other secondary bonds. Final sections deal with LEDs, solvoluminescent and

electroluminescent materials, liquid crystals and catalysis. While of interest to advanced chemistry students, this book is also useful for researchers interested in the chemistry of gold and its applications, as well as those involved in metal-metal interactions, heteronuclear chemistry or in the optical properties of coordination compounds.

The book discusses the underlying logic of the high-tech industry, arguing that recent technological and strategic developments made interorganizational alliances inevitable. In the last 15 years, strategic alliances became the main driving force for the industry development and nowadays, one cannot think of "stand-alone" strategies and complete independence, due to the proliferation of technology standards, long- or short-term linkages, and the complementary nature of advanced products. The book offers a comprehensive review of existing literature, concerning strategic alliances, management of technology and high-tech markets. It further proposes the model of high-tech value chain, resulting from the nature of new technologies, but constituting the industry structure and impacting businesses of all high-tech companies. A company's technological strategy or domestic industry's policy is directly linked to its assumed role in the globalized value chain: chain leader, complementor and contractor. The book analyzes these three generic partnership strategies, using examples of NTT DoCoMo, Microsoft, Taiwanese electronics manufacturers, Indian offshore software developers and the open source movement, and multiple documentary sources, not widely available

to international readers. Managers of high-tech companies will benefit from the book's recommendations, helping them define corporate strategies. The integrated partnership model suggests when, how and with whom to ally in order to stimulate innovation and diffusion of their products and services. The discussed generic strategies include options for market penetration without substantial financial investments, opening doors to young start-up companies and showing them how to gradually grow their businesses. Plural governance model and portfolio of incentives and deterrents help in turn established firms align strategies of their partners and boost the innovativeness of own technology platforms. Krzysztof Klincewicz is lecturer at the School of Management, Warsaw University and visiting researcher at the School of Innovation Management, Tokyo Institute of Technology. His research interests combine strategic management, organization theory, social sciences and new technologies, with particular focus on strategies of advanced technology companies. The present book is an outcome of a two years research program, financed by the government of Japan, concerning the role of interorganizational linkages and technology alliances in strategies of high-tech companies. Dr Klincewicz is certified chartered marketer of the British Chartered Institute of Marketing, and has numerous years of working experience in business development management for IT companies in Poland, Finland and in the UK. He has authored many academic articles, conference papers, and two management science

books: g?qqKnowledge management. Development, diffusion and rejection g?qq (Wydawnictwo WZ UW 2004) and the recently published g?qqManagement fashions. Turning bestselling ideas into objects and institutions g?qq (Transaction Publishers 2005).

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