

Jis A 0101

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MOODY SELLERS

Oil Shale Elsevier

This book comprehensively discusses the methods and practices for evaluating geochemical processes in aquifer groundwater. Possible occurrence and mechanisms of rock-water interaction, trace metal mobilization, thermodynamic explanation, actions of aquifer CO₂, pollution sources, geogenic influencing factors, and isotope dilution methods are the primary areas of focus. These water quality variables are analyzed using a variety of logical/theoretical explanations, statistical techniques, and experimental procedures to determine the suitability of groundwater for drinking, irrigation, and other industrial purposes. The work is an important addition to hydrogeochemical literature since many existing indexing methods for the assessment of water quality are very old and have some degree of limitation. The book will be a useful resource for students, lecturers, and researchers working in the fields of hydrogeochemistry, hydrology, water pollution, and groundwater quality.

Bulletin of the Chemical Society of Japan Springer Nature

This student lab manual reinforces the chapter content and lecture material from Apparel Quality, but may also be used as a standalone product in conjunction with another apparel quality textbook. With more than 30 hands-on lab activities and projects to enhance learning, the lab manual offers a greater understanding of quality issues that arise with apparel production and end use. Designed for courses that emphasize textile testing or offer a laboratory component, Apparel Quality Lab Manual includes supply lists; extensive reference tables; assignments for analyzing products, testing and evaluating materials and garments; project sheets for product comparison testing; worksheets to record data; directions for mounting specimens after testing; and templates for cutting specimens. Students will be actively engaged in their learning and participate in determining the quality level of apparel products, allowing them to simulate how apparel products are analyzed in the industry.

Science and Engineering of Hydrogen-Based Energy Technologies Bloomsbury Publishing USA

Science and Engineering of Hydrogen-Based Energy Technologies explores the generation of energy using hydrogen and hydrogen-rich fuels in fuel cells from the perspective of its integration into renewable energy systems using the most sound and current scientific knowledge. The book first examines the evolution of energy utilization and the role expected to be played by hydrogen energy technologies in the world's energy mix, not just for energy generation, but also for carbon capture, storage and utilization. It provides a general overview of the most common and promising types of fuel cells, such as PEMFCs, SOFCs and direct alcohol fuel cells. The co-production of chemical and electrolysis cells, as well as the available and future materials for fuel cells production are discussed. It then delves into the production of hydrogen from biomass, including waste materials, and from excess electricity produced by other renewable energy sources, such as solar, wind, hydro and geothermal. The main technological approaches to hydrogen storage are presented, along with several possible hydrogen energy engineering applications. Science and Engineering of Hydrogen-Based Energy Technologies's unique approach to hydrogen energy systems makes it useful for energy engineering researchers, professionals and graduate students in this field. Policy makers, energy planning and management professionals, and energy analysts can also benefit from the comprehensive overview that it provides. Presents engineering fundamentals, commercially deployed technologies, up-and-coming developments and applications through a systemic approach Explores the integration of hydrogen technologies in renewable energy systems, including solar, wind, bioenergy and ocean energy Covers engineering standards, guidelines and regulations, as well as policy and social aspects for large-scale deployment of these technologies

Monitoring Industrial Emissions and Wastes CRC Press

This book proposes the use of green infrastructure to balance biodiversity conservation and disaster management. Paddy fields are one example of such infrastructure and are the focus of this book. In Japan, abandoned, once-cultivated land is increasing in the paddy fields due to the aging of society and recent depopulation. The author proposes to consolidate such lands and create wetlands because the paddy fields hold water during heavy rains, which prevents floods and protects cities. This is essential, considering that extreme weather conditions have increased the risk of flood damage in Japan. Not only do such wetlands hold water during the flood season, they also provide habitats for aquatic life and places for children to learn about the natural environment. In addition, fish farming in the wetlands will provide food for many people. The increase in water disasters associated with global warming is occurring not only in Japan but globally. The proposal presented in this book will help government officials around the world, especially those involved in urban and rural planning, to consider disaster management—an idea that will be welcomed by both engineers and biologists.

Hikobia Academic Press

This book presents an analysis of the results of studies of motor fuels ageing, conducted in laboratory and model conditions, in terms of building a system operating on-line, allowing continuous assessment of the operational usability of gasoline and diesel fuels, including those containing the addition of ethanol and FAME, respectively. This research was carried out in the framework of the project: "A system for the continuous control of the

degree and rate of the liquid fuels ageing process during storage, which received co-funding from the European Regional Development Fund under the Operational Programme "Innovative Economy". The book presents an evaluation of the impact of fuel production processes on its stability and an analysis of changes in normative parameters of fuels during their storage and use. The book presents also the results of tests on the corrosive effects of fuels during storage processes. This project was co-financed by the European Regional Development Fund under the Operational Programme "Innovative Economy".

Remedial Conventional Measures for Capturing, Stabilizing, Or Removing Kepone in Bailey Bay, Bailey Creek, Gravelly Run, and the James River, Virginia Springer Science & Business Media

Instrumentation technology is vitally important today since it supports the automation of a wide range of manufacturing factories, the chemical industry and electrical power generation facilities. Engineers who are active in these and other fields need the technical information and support provided by this comprehensive text. Modern instrumentation technology is a constantly-changing kaleidoscope of technological progress that is keeping pace with the entire field of micro-electronics. This is necessary to keep up with the progress evident in the industries that it supports. As a result, the traditional technology of industrial instruments has evolved into one of comprehensive instrumentation systems for an entire factory or plant. This state-of-the-art book is a handy, single-source reference for information required by engineers in the instrumentation business.

Academic Press

This book is a part of ICL new book series "ICL Contribution to Landslide Disaster Risk Reduction" founded in 2019. Peer-reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series. This book contains the following parts: • Impact of Large Ground Deformations near Seismic Faults on Critically Important Civil Infrastructures • Recent Progress in the Landslide Initiating Science • Earth Observation and Machine Learning in Landslide Science • General Landslide Studies Professor Željko Arbanas is the Vice President of International Consortium on Landslides. He is a Professor of Faculty of Civil Engineering, University of Rijeka, Croatia. He is the Assistant Editor-in-Chief of International Journal Landslides. Professor Peter Bobrowsky is the President of International Consortium on Landslides. He is a Senior Scientist of Geological Survey of Canada, Ottawa, Canada. Professor Kazuo Konagai is Professor Emeritus at the University of Tokyo and Principal Researcher at the ICL Headquarters. He serves as the Secretary-General of the Fifth World Landslide Forum. Professor Kyoji Sassa is the Founding President and the Secretary-General of the International Consortium on Landslides (ICL). He has been the Editor-in-Chief of International Journal Landslides since its foundation in 2004. Professor Kaoru Takara is the Executive Director of International Consortium on Landslides. He is a Professor and Dean of Graduate School of Advanced Integrated Studies (GSAIS) in Human Survivability (Shishu-Kan), Kyoto University.

Corrosion Engineering CRC Press

A new & important manual relevant to most industries. Procedures are given for the stages & steps required to carry out systematic monitoring programmes. It demonstrates how monitoring programmes can be implemented by companies, whether 'in-house' or by special monitoring organizations. It is designed for use by a wide range of professionals, including plant managers, technical staff, monitoring teams & government agencies.

Apparel Quality Springer Nature

As the world's population is projected to reach 10 billion or more by 2100, devastating fossil fuel shortages loom in the future unless more renewable alternatives to energy are developed. Bioenergy, in the form of cellulosic biomass, starch, sugar, and oils from crop plants, has emerged as one of the cheaper, cleaner, and environmentally sustainab

Industrial Standardization Bloomsbury Publishing USA

This book describes the basic principles of food packaging, as well as recent advances in new materials. The Japanese are world leaders in this area, and detailed information on certain aspects of their industry are presented in this volume. Sanitation and waste of food packaging materials Food packaging and energy in Japan New trends in the technology of food preservation Fresh and processed food packaging

Understanding and Reducing Landslide Disaster Risk Nguyen Thi Hop

Lead-Acid Batteries for Future Automobiles provides an overview on the innovations that were recently introduced in automotive lead-acid batteries and other aspects of current research. Innovative concepts are presented, some of which aim to make lead-acid technology a candidate for higher levels of powertrain hybridization, namely 48-volt mild or high-volt full hybrids. Lead-acid batteries continue to dominate the market as storage devices for automotive starting and power supply systems, but are facing competition from alternative storage technologies and being challenged by new application requirements, particularly related to new electric vehicle functions and powertrain electrification. Presents an overview of development trends for future automobiles and the demands that they place on the battery Describes how to adapt LABs for use in micro and mild hybrid EVs via collector construction and materials, via carbon additives, via new cell construction (bipolar), and via LAB hybrids with Li-ion and supercap systems System integration of LABs into vehicle power-supply and hybridization concepts Short description of competitive battery technologies

Storage Stability of Fuels Routledge

With 1991: contains domestic, foreign, and international standards for medical devices. Intended for those involved in standards development or interested in specifying safety and performance.

Electric Vehicle Integration in a Smart Microgrid Environment BoD – Books on Demand

Preface; Introduction; Processes for Forming Nonwoven Filter Media; Raw Materials for Nonwoven Filter Media; Types of Filters Using Nonwovens; Applications for Nonwoven Filters; Test Methods for Nonwoven Filter Media; Standards for Nonwoven Media; Glossary; Index; Appendix.

International Journal of the Japan Society for Precision Engineering Springer Nature

Electric Vehicle Integration in a Smart Microgrid Environment The growing demand for energy in today's world, especially in the Middle East and Southeast Asia, has been met with massive exploitation of fossil fuels, resulting in an increase in environmental pollutants. In order to mitigate the issues arising from conventional internal combustion engine-powered vehicles, there has been a considerable acceleration in the adoption of electric vehicles (EVs). Research has shown that the impact of fossil fuel use in transportation and surging demand in power owing to the growing EV charging infrastructure can potentially be minimized by smart microgrids. As EVs find wider acceptance with major advancements in high efficiency drivetrain and vehicle design, it has become clear that there is a need for a system-level understanding of energy storage and management in a microgrid environment. Practical issues, such as fleet management, coordinated operation, repurposing of batteries, and environmental impact of recycling and disposal, need to be carefully studied in the context of an ageing grid infrastructure. This book explores such a perspective with contributions from leading experts on planning, analysis, optimization, and management of electrified transportation and the transportation infrastructure. The primary purpose of this book is to capture state-of-the-art development in smart microgrid management with EV integration and their applications. It also aims to identify potential research directions and technologies that will facilitate insight generation in various domains, from smart homes to smart cities, and within industry, business, and consumer applications. We expect the book to serve as a reference for a larger audience, including power system architects, practitioners, developers, new researchers, and graduate-level students, especially for emerging clean energy and transportation electrification sectors in the Middle East and Southeast Asia.

Magazine of Standards Elsevier

This user-friendly guide to evaluating apparel quality presents the roles of product designers, manufacturers, merchandisers, testing laboratories, and retailers from product inception through the sale of goods, to ensure quality products that meet customer expectations. Bubonia provides an overview of apparel production, with emphasis on quality characteristics and cues, consumer influences and motivations impacting purchasing

decisions, and the relationship of apparel manufacturing and production processes, cost, price point and the quality level of an apparel product. A key aspect of the book is the focus on both U.S. and International standards and regulations required for apparel analysis, performance, labeling requirements and safety regulations. The text is highly illustrated with images of stitch and seam types plus photos of their uses in actual garments, providing students with the tools needed to skillfully evaluate and critique quality elements in apparel and textile products. Key Features ~ Supplementary Apparel Quality Lab Manual (sold separately) includes hands-on lab activities and projects that simulate real-world garment analysis and material testing ~ Industry Scenario boxes present case studies highlight real world situations such as the Lululemon recall and the environmental impact of apparel manufacturing ~ Provides an illustrated guide to ASTM stitch and seam types Teaching Resources ~ Instructor's Guide with Test Bank ~ PowerPoint presentations for each chapter PLEASE NOTE: Purchasing or renting this ISBN does not include access to the STUDIO resources that accompany this text. To receive free access to the STUDIO content with new copies of this book, please refer to the book + STUDIO access card bundle ISBN 9781501395338. STUDIO Instant Access can also be purchased or rented separately on BloomsburyFashionCentral.com.

Japanese Journal of Tribology Incumbent

One of a few books about the art of packaging in Vietnam, its history, and transformations over time. What is its theoretical framework and implementation in practice? How are the design and the art of packaging in Vietnam impacted by Western thinking on industrial arts and what traditions it is still upholding? What are important developments of modern packaging art in Vietnam? How are the social and economical changes reflected in the packages of consumer goods in the country? And how the new look of these goods create a new consumerism culture in the ex-Stalinism nation? This book sums up what has happened with the aesthetic aspect of packaging in Vietnam, theoretically and practically, in the last half century and tries to answer parts of these questions.

Industrial Standardization in Japan

Evaluating the effectiveness of conventional wet processes for cleaning silicon wafers in semiconductor production, this reference reveals concrete measures to improve ultrapure water quality reviewing the structure and physical characteristics of ultrapure water molecules. The volume is divided into

*Handbook of Bioenergy Crop Plants**Phosphatic Clay Bibliography***Food Packaging**