

Spatial Databases A Tour Fajin

Marine geochemistry uses chemical elements and their isotopes to study how the ocean works in terms of ocean circulation, chemical composition, biological activity and atmospheric CO₂ regulation. This rapidly growing field is at a crossroad for many disciplines (physical, chemical and biological oceanography, geology, climatology, ecology, etc.). It provides important quantitative answers to questions such as: What is the deep ocean mixing rate? How much atmospheric CO₂ is pumped by the ocean? How fast are pollutants removed from the ocean? How do ecosystems react to anthropogenic pressure? This text gives a simple introduction to the concepts, the methods and the applications of marine geochemistry with a particular emphasis on isotopic tracers. Overall introducing a very large number of topics (physical oceanography, ocean chemistry, isotopes, gas exchange, modelling, biogeochemical cycles), with a balance of didactic and indepth information, it provides an outline and a complete course in marine geochemistry. Throughout, the book uses a hands-on approach with worked out exercises and problems (with answers provided at the end of the book), to help the students work through the concepts presented. A broad scale approach is take including ocean physics, marine biology, ocean-climate relations, remote sensing, pollutions and ecology, so that the reader acquires a global perspective of the ocean. It also includes new topics arising from ongoing research programs. This textbook is essential reading for students, scholars, researchers and other professionals.

The merging of metasurface and holography brings about unprecedented opportunities for versatile manipulation of light in terms of both far-field wavefront and near-field profile. In this book, a brief evolving history from surface plasmon polariton holography to metamaterial holography and finally to metasurface holography is introduced at first. Basic physical mechanisms that govern the phase modulation rules behind metasurface holography design are discussed later. Next, extended functionalities such as arbitrary polarization holography, vectorial holography, full-color holography, and hybrid holography achieved in the metasurface platform are presented. Surface wave and metagrating holography that bridges the on-chip surface wave and free-space wave is also introduced. In the end, we envisage practical applications of high-fidelity 3D holographic display, high-secure encryption, and high capacity digital encoding and also indicate remaining challenges based on metasurface holography. In 1898 Camillo Golgi reported his newly observed intracellular structure, the apparatus reticolare interno, now universally known as the Golgi Apparatus. The method he used was an ingenious histological technique (La reazione nera) which brought him fame for the discovery of neuronal networks and culminated in the award of the Nobel Prize for Physiology and Medicine in 1906. This technique, however, was not easily reproducible and led to a long-lasting controversy about the reality of the Golgi apparatus. Its identification as a ubiquitous organelle by electron microscopy turned out to be the breakthrough and incited an enormous wave of interest in this organelle at the end of the sixties. In recent years immunochemical techniques and molecular cloning approaches opened up new avenues and led to an ongoing resurgence of interest. The role of the Golgi apparatus in modifying, broadening and refining the structural information conferred by transcription/translation is now generally accepted but still incompletely understood. During the coming years, this topic certainly will remain center stage in the field of cell biology. The centennial of the discovery of this fascinating organelle prompted us to edit a new comprehensive book on the Golgi apparatus whose complexity necessitated the contributions of leading specialists in this field. This book is aimed at a broad readership of glycobiochemists as well as cell and molecular biologists and may also be interesting for advanced students of biology and life sciences.

Southern Min (also known as Hokkien or Minnan) is a major branch of Chinese spoken mainly in Fujian and Taiwan, but also in Guangdong, Hainan and Hong Kong, as well as in many countries of Southeast Asia. Highly conservative in its linguistic profile, it is considered by many scholars to be a living language fossil due to the preservation of many archaic features that reflect its long-lasting history and culture. Yet to date there has been no comprehensive study of Southern Min using a typological framework, as the tendency is to base analyses on the model of Mandarin Chinese, the standard language. This grammar aims to present a systematic description of the Hui'an variety of Southern Min, mainly based on data collected via naturally occurring conversation. The volume includes four parts: nominal structure, predicate structure, clause structure and complex sentences, as well as a brief overview of phonology. It will have great appeal for heritage speakers, graduate students and scholars in both Chinese linguistics and typology.

Buddhist Encounters and Identities Across East Asia

Enterprise Management Control Systems in China

Canadian Journal of Fisheries and Aquatic Sciences

Advances in Artificial Intelligence and Security

A Grammar of Southern Min

The Hui'an Dialect

Environmental Risk Assessment of Soil Contamination

The East Asian summer monsoon has complex space and time structures that are distinct from the South Asian summer monsoon. It covers both subtropics and midlatitudes and its rainfall tends to be concentrated in rain belts that stretch for many thousands of kilometers and affect China, Japan, Korea, and the surrounding areas. The circulation of the East Asian winter monsoon encompasses a large meridional domain with cold air outbreaks emanating from the Siberian high and penetrates deeply into the equatorial Maritime Continent region, where the center of maximum rainfall has long been recognized as a major planetary scale heat source that provides a significant amount of energy which drives the global circulation during boreal winter. The East Asian summer monsoon is also

closely linked with the West Pacific summer monsoon. Both are part of the global climate system and are affected by El Niño/Southern Oscillation (ENSO) and surface temperature variations in the western Pacific and surrounding oceans, the tropospheric biennial oscillation, and the South Asian summer monsoon. In addition, typhoons in the western North Pacific are most active during the East Asian summer monsoon. They may be considered as a component of the East Asian summer monsoon as they contribute substantial amounts of rainfall and have major impacts on the region. Because of its impacts on nearly one-third of the world's population and on the global climate system (including effects on the climate change), the study of the East Asian monsoon has received increased attention both in East Asian countries and in the United States. This book presents reviews of recent research on the subject."

Materials Science Forum Vol. 9

This book provides examples of pollutants, such as accidental oil spills and non-degradable plastic debris, which affect marine organisms of all taxa. Terrestrial runoff washes large amounts of dissolved organic materials from agriculture and industry, toxic heavy metals, pharmaceuticals, and persistent organic pollutants which end up into rivers, coastal habitats, and open waters. While this book is not intended to encyclopaedically list all kinds of pollution, it rather exemplifies the problems by concentrating on a number of serious and prominent recent developments. The chapters in this book also discuss measures to decrease and remove aquatic pollution to mitigate the stress on aquatic organisms. Aquatic ecosystems provide a wide range of ecological and economical services. In addition to providing a large share of the staple diet for a fast growing human population, oceans absorb most of the anthropogenically emitted carbon dioxide and mitigate climate change. As well as rising temperatures and ocean acidification, pollution poses increasing problems for aquatic ecosystems and organisms reducing its functioning and services which are exposed to a plethora of stress factors. The subject of ocean turbulence is in a state of discovery and development with many intellectual challenges. This book describes the principal dynamic processes that control the distribution of turbulence, its dissipation of kinetic energy and its effects on the dispersion of properties such as heat, salinity, and dissolved or suspended matter in the deep ocean, the shallow coastal and the continental shelf seas. It focuses on the measurement of turbulence, and the consequences of turbulent motion in the oceanic boundary layers at the sea surface and near the seabed. Processes are illustrated by examples of laboratory experiments and field observations. The Turbulent Ocean provides an excellent resource for senior undergraduate and graduate courses, as well as an introduction and general overview for researchers. It will be of interest to all those involved in the study of fluid motion, in particular geophysical fluid mechanics, meteorology and the dynamics of lakes.

Volume 2: Physical and Geochemical Methods

Lunar Sourcebook

Burden of Illness in People with Epilepsy: From Population-Based Studies to Precision Medicine

Water Gas Shift Reaction

Submarine Geomorphology

From the Coastline to the Open Sea

Chinese Femininities, Chinese Masculinities

High-surface-area materials have recently attracted significant interest due to potential applications in various fields such as electrochemistry and catalysis, gas-phase catalysis, optics, sensors and actuators, energy harvesting and storage. In contrast to classical materials the properties of high-surface-area materials are no longer determined by their bulk, but by their nanoscale architecture. Nanoporous gold (np-Au) represents the fascinating class of mesoporous metals that have been intensively investigated in recent years. The current interest and the increasing number of scientific publications show that np-Au by itself is an outstanding nano-material that justifies a book devoted to all aspects of its properties and applications. The resulting publication is a discussion of this unique nano-material and is an accessible and comprehensive introduction to the field. The book provides a broad, multi-disciplinary platform to learn more about the properties of nanoporous gold from an inter-disciplinary perspective. It starts with an introduction and overview of state-of-the-art applications and techniques characterizing this material and its applications. It then covers the progress in research within the last years. The chapters are in-depth overviews written by the world's leading scientists in the particular field. Each chapter covers one technique or application so that the reader can easily target their favoured topic and will get the latest and state-of-the-art information in the field.

How does unconventional monetary policy affect corporate capital structure and investment decisions? We study the transmission channel of quantitative easing and its potential diminishing returns on investment from a corporate finance perspective. Using a rich bank-firm matched data of Japanese firms with information on corporate debt and investment, we study how firms adjust their capital structure in response to the changes in term premia. Investment responds positively to a reduction in the term premium on average. However, there is a significant degree of cross-sectional variation in firm response: healthier firms increase capital spending and cash holdings, while financially vulnerable firms take advantage of lower long-term yields to refinance without

increasing investment.

Buddhist Encounters and Identities across East Asia offers a fascinating picture of the intricacies of regional and cross-regional networks and the complexity of Buddhist identities emerging across Asia.

The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon.

Jataka Tales

2nd Edition

Bimetallic Catalysts

The Moon and Other Planets

Mechanics of Granular Materials: An Introduction

A Study of Treaty Relations

A Pure Mind in a Clean Body

This book merges approaches in understanding the function of the light-gated ion channels known as channelrhodopsin together with methods addressing how channelrhodopsins can be used to address biomedical questions on a cellular or organismal level. Since the first molecular identification of channelrhodopsins, a broad range of tools have been created and new approaches developed to both better understand the molecular determinants of channelrhodopsin function as well as to use these and homologous proteins from a variety of species as tools to better understand physiological processes, which this volume addresses. Additionally, channelrhodopsins have become instrumental as a potential treatment for disease states. Written for the highly successful *Methods in Molecular Biology* series, 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 practical, *Channelrhodopsin: Methods and Protocols* provides a resource for those interested in honing their current expertise in this vital area of study as well as potentially branching out into new directions.

Epilepsy is a common and chronic neurological disease that is characterized by recurrent seizures which impose a major burden on patients, their caregivers, and society. Worldwide more than 39 million people are affected by epilepsy. The aim of this Research Topic was to provide evidence that personalized translational epilepsy research will benefit patients through targeted experimental, clinical and network research.

This book provides essential information regarding the dynamics and rate processes of nitrogenous compounds in the sea. Topics discussed include characteristics and behavior of nitrogen at the atomic, molecular, and isotopic levels; elemental rate processes and physico-chemical and biological factors; the dynamics of nitrogen in several representative marine ecosystems; and current progress in isotope marine biogeochemistry. The book emphasizes the distribution and variation of nitrogen isotopes, which can provide a novel approach to understanding nitrogen metabolisms occurring in marine ecosystems. *Nitrogen in the Sea: Forms, Abundances, and Rate Processes* should be considered an indispensable reference tool for researchers and post-graduate students interested in the nitrogen cycle in aquatic ecosystems

Originally published in 1916, this book presents a selection from the Jatakas translated into English. The selection was made 'with the purpose of bringing together the Jataka stories of most interest, both intrinsically, and also from the point of view of the folklorist.' Notes and illustrative figures are also included. This book will be of value to anyone with an interest in the Jataka tales and Indian literature.

Radar Meteorology

9th Congress on Electronic Structure: Principles and Applications (ESPA 2014)

A Reader

The Golgi Apparatus

Development of Geoscience Disciplines in China

Nanoporous Gold

MICRO 2016: Fate and Impact of Microplastics in Marine Ecosystems

None

Chinese Literature: Lydia H. Liu

Soil is an irreplaceable resource that sustains life on the planet, challenged by food and energy demands of an increasing population. Therefore, soil contamination constitutes a critical issue to be addressed if we are to secure the life quality of present and future generations. Integrated efforts from researchers and policy makers are required to develop sound risk assessment procedures, remediation strategies and sustainable soil management policies. Environmental Risk Assessment of Soil Contamination provides a wide depiction of current research in soil contamination and risk assessment, encompassing reviews and case studies on soil pollution by heavy metals and organic pollutants. The book introduces several innovative approaches for soil remediation and risk assessment, including advances in phytoremediation and implementation of metabolomics in soil sciences.

This book addresses the emergent need to act on reducing or getting rid of micro plastic pollution, to achieve a sustainable environment. Microplastics are small plastic pieces, which are less than five millimeters long which can be harmful to our oceans and aquatic life. These predominantly include microfibers from clothing, microbeads, and plastic pellets. Microplastics impact aquatic creatures, turtles and birds. According to the first study on estimation of human ingestion of microplastic, on average a person consumes at least 50,000 particles of microplastic a year and breathes a similar quantity. Ingested microplastic particles can physically damage organs and also compromise immune function and stymie growth and reproduction. This book presents six informative chapters in order to alleviate the above mentioned issues.

Microplastic Pollution

Channelrhodopsin

7th International Conference, ICAIS 2021, Dublin, Ireland, July 19-23, 2021, Proceedings, Part I

Forms, Abundance, and Rate Processes

Principles of Thermal Analysis and Calorimetry

Proceedings of the Second International Conference on Marine Debris

Journal Canadien Des Sciences Halieutiques Et Aquatiques

Biomaterials is currently one of the most important fields of study. This is because of the high degree of interdisciplinarity and practical solutions it provides in relation to medicine, biology, chemistry, and physics. This Special Issue provides readers with information from the domain of composite biomaterials in different applications, from controlled drug release systems to tissue engineering. "Buddhist monasteries, in both Ancient India and China, have played a crucial social role, for religious as well as for lay people. They rightfully attract the attention of many scholars, discussing historical backgrounds, institutional networks, or influential material aspects of monastic life have not yet received the attention they deserve. This book therefore aims to study some of the most often overlooked, issues of Buddhist life: namely, practices and objects of bodily care. For monastic authors, bodily care primarily includes bathing, washing, cleaning, shaving and trimming the nails, activities of everyday life that are performed by lay people and monks. In this sense, they are all highly recognizable and, while structuring monastic life, equally provide a potential bridge between two worlds that are constantly interacting with each other: monastic people and their lay followers. Bodily practices might be viewed as relatively elementary, but it is exactly through their triviality that they give us a clear insight into the structure and development of Buddhist monasteries. Over time, Buddhist monks and nuns have, through their painstaking effort into regulating bodily care, defined the Buddhist *saṃgha*, overtly displaying it to the laity"--P. [4] of cover.

This practical textbook introduces the fundamental physics behind radar measurements, to guide students and practitioners in the interpretation of radar reflectivity, Doppler velocity and dual-polarization imagery. Operational applications are explored, such as how radar imagery can be used to analyze and forecast convective and widespread weather systems. The book concludes with an overview of current research topics, including the study of clouds and precipitation using radars, signal processing, and data assimilation. Full-color illustrations are included, as well as problem sets, case studies, and a variety of supplementary electronic material including animated time sequences of images to help convey complex concepts. This book is a valuable resource for advanced undergraduate and graduate students in radar meteorology and other related courses, such as precipitation microphysics and dynamics. It will also be a useful reference for researchers, professional meteorologists and hydrologists.

This textbook compiles reports written by about 35 internationally recognized authorities, and covers a range of interests for materials engineers. Topics include: fundamentals for mechanics of granular materials; continuum theory of granular materials; and discrete element approaches.

Metasurface Holography

Volume 3

East Asian Monsoon

Metal-Metal Bonding

Anthropogenic Pollution of Aquatic Ecosystems

Tracking Environmental Change Using Lake Sediments

Hurricanes and Climate Change

This volume collects research findings presented at the 9th Edition of the Electronic Structure: Principles and Applications (ESPA-2014) International Conference, held in Badajoz, Spain, on July 2–4, 2014. The contributions cover research work on theory, methods and foundations, materials science, structure and chemical reactivity as well as environmental effects and modelling. Originally published in the journal *Theoretical Chemistry Accounts*, these outstanding papers are now available in a hardcover print format, as well as a special electronic edition. This volume provides valuable content for all researchers in theoretical chemistry, and will especially benefit those research groups and libraries with limited access to the journal.

This book provides research that shows tropical cyclones are more powerful than in the past with the most dramatic increases occurring over the North Atlantic and with the strongest hurricanes. Although such increases are correlated with warming oceans and are consistent with the thermodynamic theory of hurricane intensity, there remains doubt about the interpretation, integrity, and meaning of these results. Arising from the 5th International Summit on Hurricanes and Climate Change, this book contains new research on topics related to hurricanes and climate change. Bringing together international leading academics and researchers on various sides of the debate, the book discusses new research and expresses opinions about what is happening and what might happen in the future with regard to regional and global hurricane (tropical cyclone) activity.

Lunar Sourcebook A User's Guide to the MoonCUP Archive

This book on the current state of knowledge of submarine geomorphology aims to achieve the goals of the Submarine Geomorphology working group, set up in 2013, by establishing submarine geomorphology as a field of research, disseminating its concepts and techniques among earth scientists and professionals, and encouraging students to develop their skills and knowledge in this field. Editors have invited 30 experts from around the world to contribute chapters to this book, which is divided into 4 sections – (i) Introduction & history, (ii) Data & methods, (iii) Submarine landforms & processes and (iv) Conclusions & future directions. Each chapter provides a review of a topic, establishes the state-of-the-art, identifies the key research questions that need to be addressed, and delineates a strategy on how to achieve this. Submarine geomorphology is a priority for many research institutions, government authorities and industries globally. The book is useful for undergraduate and graduate students, and professionals with limited training in this field.

The Triangle India-Nepal-China

A User's Guide to the Moon

Discoveries, Concepts, and Applications

The Geology of Multi-Ring Impact Basins

The Turbulent Ocean

Ocean Circulation, Carbon Cycle and Climate Change

Diverse Voices in Chinese Translation and Interpreting

The 3-volume set CCIS 1422, CCIS 1423 and CCIS 1424 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security, ICAIS 2021, which was held in Dublin, Ireland, in July 2021. The total of 131 full papers and 52 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1013 submissions. The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence; big data; cloud computing and security internet; Part III: cloud computing and security; encryption and cybersecurity; information hiding; IoT security.

Theory Instrumentation NIR analysis of sediment samples Uses of NIRS in palaeolimnology Future perspectives

Summary References Fly-ash particles. Neil Rose 319 12. Introduction A brief history Methods of extraction and enumeration Temporal distribution Spatial distribution Source apportionment The future Summary Acknowledgements References Part III: Stable Isotope Techniques 13. Application of stable isotope techniques to inorganic and biogenic carbonates. Emi Ito 351 Introduction Nomenclature and systematics of lake-water Mg/Ca and Sr/Ca ratios of lake-water of dissolved inorganic carbon (DIC) Carbonates in lake-sediments Mollusks Ostracodes Charophytes Isotope analysis Preparation of carbonate samples for isotope analysis Conclusions Summary Acknowledgments References 14. Carbon and oxygen isotope analysis of lake sediment cellulose: methods and applications. Brent B. Wolfe, Thomas W. D. Edwards, Richard J. Elgood & Kristina R. M. Beuning 373 xi Introduction Stable isotope tracers in lake Historical development Methods Key criteria for paleohydrologic reconstruction Applications Future research directions Summary Acknowledgements References Nitrogen isotopes in palaeolimnology. Michael R. Talbot 15. 401 Introduction Nitrogen in lakes: forms and distribution Nitrogen isotopes Nitrogen isotope studies in palaeolimnology: sampling and measurement Some examples Closing remarks Summary Acknowledgments References Glossary, acronyms and abbreviations 441 Index 493 xiii PREFACE The explosive growth of paleolimnology over the past two decades has provided impetus for the publication of this series of monographs detailing the numerous advances and new techniques being applied to the interpretation of lake histories. This is the second volume in the series and deals mainly with physical and geochemical analytical techniques. Water Gas Shift Reaction: Research Developments and Applications outlines the importance of hydrogen as a future fuel, along with the various hydrogen production methods. The book explains the development of catalysts for Water Gas Shift (WGS) reaction at different temperatures and steam/CO ratios, and also discussing the effect of different dopants on the WGS activity of iron oxide and the promotion and inhibition roles of the dopants on the WGS activity of iron oxide are explained. In addition, the book describes extensive characterization of modified ferrite catalysts, especially with Mossbauer spectroscopy and its advantage in understanding properties of metal doped ferrite catalysts, the exact dopant location, and its effect on electron hopping capability and WGS activity of Fe redox couple. Outlines the importance of the Water Gas Shift Reaction and its application for hydrogen production Provides detailed information on potential catalysts, their development, and their pros and cons, giving the reader insights on how modified ferrite catalysts work at different temperatures and different steam to CO ratios Reviews hydrogen technology, its current importance, and production methods Presents a clear presentation of the topics with many graphics and tables Offers basic and advanced knowledge of catalysts characterization instrumental techniques The use of thermal and calorimetric methods has shown rapid growth over the past few decades, in an increasingly wide range of applications. The original text was published in 2001; since then there have been significant advances in various analytical techniques and their applications. This second edition supplies an up to date, concise and readable account of the principles, experimental apparatus and practical procedures used in thermal analysis and calorimetric methods of analysis. Written by experts in their field, brief accounts of the basic theory are reinforced with detailed technical advances and contemporary developments. Where appropriate, applications are used to highlight particular operating principles or methods of interpretation. As an important source of information for many levels of readership in a variety of areas, this book will be an aid for students and lecturers through to industrial and laboratory staff and consultants.

Nitrogen in the Sea
Principles and Practice

Bodily Care in the Buddhist Monasteries of Ancient India and China
Theory and Practice

Zombies on the Brink: Evidence from Japan on the Reversal of Monetary Policy Effectiveness

2-7 April, 1989, Honolulu, Hawaii

For ages, India has had a close and unique relationship with Nepal. Across the open border between the two countries millions of people travel to each other's country for their livelihood, for pleasure and social contacts. The border for all practical purposes does not exist and there is no hassle of passports and visas, almost unparalleled anywhere in the world. Yet the political and diplomatic relations between the two countries have not been uniformly good. India's ties with the two close neighbours, Nepal and China, and their inter-relationship form the subject of this book. To a substantial extent, Chinese foreign policy has influenced the course of Nepal's relations with India. A triangle is thus formed which is explored here in the context of treaties and agreements. Nepal is the focus of the book but India's relations with China are also examined in depth. The relevant treaties are reproduced for ready reference. India's ties with her neighbours have been close and special importance is attached to them in the framing and conduct of foreign policy. But the experience has not been uniformly happy. The problems encountered in the Indian policy towards Nepal and China have been discussed here in detail.

Fate and Impact of Microplastics in Marine Ecosystems: From the Coastline to the Open Sea brings together highlights from the conference proceedings for MICRO 2016: Fate and Impact of Microplastics in Marine Ecosystems: From the Coastline to the Open Sea. While the presence of microplastics in ecosystems has been reported in the scientific literature since the 1970's, many pressing questions regarding their impacts remain unresolved. This short format title draws from the shared scientific and technical material and summarizes the current research and future outlook. Includes a range of topics, from macro- to microplastics Presents data from source to sink, including occurrence and distribution of microplastics in freshwater bodies, coastal zones, and the open ocean Presents the impacts of microplastics on marine life as well as microplastics as vectors of biological and chemical contaminants Provides important analysis on solutions and next steps

Presents an account of the research on bimetallic catalysts. Focuses attention on the possibility of influencing the selectivity of chemical transformations on metal surfaces and preparing metal alloys in a highly dispersed state. Covers the validation and elucidation of the bimetallic cluster concept. Includes figures and tables.

This book presents a thoughtful and thorough account of diverse studies on Chinese translation and interpreting (TI). It introduces readers to a plurality of scholarly voices focusing on different aspects of Chinese TI from an interdisciplinary and international perspective. The book brings together eighteen essays by scholars at different stages of their careers

with different relationships to translation and interpreting studies. Readers will approach Chinese TI studies from different standpoints, namely socio-historical, literary, policy-related, interpreting, and contemporary translation practice. Given its focus, the book benefits researchers and students who are interested in a global scholarly approach to Chinese TI. The book offers a unique window on topical issues in Chinese TI theory and practice. It is hoped that this book encourages a multilateral, dynamic, and international approach in a scholarly discussion where, more often than not, approaches tend to get dichotomized. This book aims at bringing together international leading scholars with the same passion, that is delving into the theoretical and practical aspects of Chinese TI.

Advanced Composite Biomaterials

High Resolution Powder Diffraction

Methods and Protocols

A Conference Selection from Theoretical Chemistry Accounts

From an Ancient Technology to a High-tech Material

Marine Geochemistry

Research Developments and Applications

This book provides an exhaustive view of China's Management Control Systems (MCS), examining the development of theory and practice and presenting a framework that integrates China's unique enterprise regulations, corporate culture and managerial mindset into management control systems. The work offers detail about the effects of China's economic reforms on management control in Chinese enterprises and insightful comparisons with Western theory and Western examples. Readers will discover important themes and the evolution of theory in MCS, including discussions of frameworks and the links between management control and economics, management, accounting, cybernetics and system theory. Early chapters explore management control in Chinese enterprises during the period, especially the demands of (guidance, enforcement and external regulation) and the demand for (stakeholders, managers, investors) management control. The work moves on to explore Western management control theory and research, including an examination of the evolution of internal control theory. The author presents detailed perspectives on the elements of management control systems and introduces masterful new ideas and methods through four general control models and ten critical elements in the management control process. A view of management control in various different types of enterprise is presented, from special enterprises and small to medium enterprises to non-profit organizations. The standards for enterprise management control are explored. This work is a valuable practical guide for corporate management teams who wish to develop and execute their own internal control strategies. It will also provide foreign researchers, policy-makers and practitioners with a new perspective on Chinese management control experiences.

Multi-ring basins are large impact craters formed in the early history of planets. They critically affect the evolution of the planets and their satellites. The Moon offers an exceptional chance to study these phenomena and this book provides a comprehensive geological study using data from lunar landings and remote sensing of the Moon. The author covers the formation and development of basins and considers their chemistry and mineralogy. He studies their effects on the volcanic, tectonic and geological evolution of the planet, including the catastrophic consequence on the planetary climate and evolution of life. This study is lavishly illustrated with many spectacular, highly-detailed photographs and diagrams.