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KEY=ENGINEERING - MCCARTHY CHACE

Textbook of Engineering Geology

Topics in Igneous Petrology

Springer Science & Business Media The second half of the past century witnessed a remarkable paradigm shift in approach to the understanding of igneous rocks. Global literature records a change from a classical petrographic approach to emphasis on mineral chemistry, trace element characteristics, tectonic setting, phase relations, and theoretical simulation of magma generation and evolution processes. This book contains contributions by international experts in different fields of igneous petrology and presents an overview of recent developments. This book is dedicated to the late Dr Mihir K. Bose, former professor of the Department of Geology, Presidency College, Calcutta, India, who actively participated in the development of this new global view of igneous petrology.

Geodynamics of the Indian Plate

Evolutionary Perspectives

Springer Nature This book provides insights on new geological, tectonic, and climatic developments in India through a time progression from the Archean to the Anthropocene that are captured via authoritative entries from experts in earth sciences. This volume aims to bring graduate students and researchers up to date on the geodynamic evolution of the Indian Plate; concepts that have so far resulted in a rather uneven treatment of the subject at different institutions. The book is divided into 4 sections and includes perspectives such as the formation and evolution of the Indian crust in comparison to its neighbors such as Antarctica, Africa and Australia; the evolution of Precambrian cratons and sedimentary basins of India; and a summary account of early life reported in the Indian stratigraphic record. Readers will also discover the key recent research into the neotectonics, tectonic geomorphology, and paleoseismology of the Himalayan Front. Researchers and students in geology, earth sciences, sedimentology, paleobiology and geography will find this book appealing.

A Textbook Of Geology

Earth Observation Open Science and Innovation

Springer This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

Environmentally Sustainable Viticulture

Practices and Practicality

CRC Press This title includes a number of Open Access chapters. As climate change becomes a growing reality, more industries must grapple with how to implement sustainable business practices at every step of the production process. This is especially true for viticulture, where every step of production can take years to come to fruition, and any decision made

Environmental Issues of Blasting

Applications of Artificial Intelligence Techniques

Springer Nature This book gives a rigorous and up-to-date study of the various AI and machine learning algorithms for resolving environmental challenges associated with blasting. Blasting is a critical activity in any mining or civil engineering project for breaking down hard rock masses. A small amount of explosive energy is only used during blasting to fracture rock in order to achieve the appropriate fragmentation, throw, and development of muck pile. The surplus energy is transformed into unfavourable environmental effects such as back-break, flyrock, air overpressure, and ground vibration. The advancement of artificial intelligence and machine learning techniques has increased the accuracy of predicting these environmental impacts of blasting. This book discusses the effective application of these strategies in forecasting, mitigating, and regulating the aforementioned blasting environmental hazards.

Research, Action and Policy: Addressing the Gendered Impacts of Climate Change

Springer Science & Business Media Research, Action and Policy: Addressing the Gendered Impacts of Climate Change presents the voices of women from every continent, women who face vastly different climate events and challenges. The book heralds a new way of understanding climate change that incorporates gender justice and human rights for all.

An Introduction to Materials Engineering and Science for Chemical and Materials Engineers

John Wiley & Sons An Introduction to Materials Engineering and Science for Chemical and Materials Engineers provides a solid background in materials engineering and science for chemical and materials engineering students. This book: Organizes topics on two levels; by engineering subject area and by materials class. Incorporates instructional objectives, active-learning principles, design-oriented problems, and web-based information and visualization to provide a unique educational experience for the student. Provides a foundation for understanding the structure and properties of materials such as ceramics/glass, polymers, composites, bio-materials, as well as metals and alloys. Takes an integrated approach to the subject, rather than a "metals first" approach.

Empowering Municipal Sustainability

A Guide for Towns, Cities, and Citizens

Walter de Gruyter GmbH & Co KG Amidst growing awareness over the past half century that human activity threatens our natural environment, many of the world's largest cities have played a role in the sustainability movement, as seen by such initiatives as Day of Cities sponsored by the United Nations. And now local governments in towns and smaller cities are beginning to play a more prominent role in the green movement. This book, inspired by the author's own experience as a citizen activist and local candidate, is a guide for local governments and citizens wishing to launch sustainability campaigns and programs that make a lasting difference in our world. Alexandra Reed Lajoux addresses the popular "green city" topic but focuses on smaller municipalities, which are more numerous than big cities, and in greater need of guidance. With a visionary foreword by Ben G. Price, National Organizer, Community Environmental Legal Defense Fund and author of *How Wealth Rules the World*, the book discusses the most critical environmental, economic, and engineering realities of municipal life and leadership in our times, ranging from rights of nature, to rollback tax rates, to green infrastructure, to gentrification. It will appeal to a broad range of town or city government employees and elected officials, as well as local activists, contemplating the issues of managing and funding sustainability that all localities worldwide face at some level.

Bio-valorization of Waste

Trends and Perspectives

Springer Nature This book explores the concept and methods of waste management with a new approach of biological valorization. Waste valorization is a process that aims to reduce, reuse, and recycle the waste into usable, value-added, and environmental benign raw materials which can be a source of energy. The book brings together comprehensive information to assert that waste can be converted into a resource or a raw material for value addition. Waste valorization imbibes the natural recycling principles of zero waste, loop closing, and underlines the importance of sustainable and environmentally friendly alternatives. Drawing upon research and examples from around the world, the book is offering an up-to-date account, and insight into the contours of waste valorization principles, biovalorization technologies for diverse group of wastes including agricultural, municipal, and industrial waste. It further discusses the emerging paradigms of waste valorization, waste biorefineries, valorization technologies for energy, biofuel, and biochemical production. The book meets the growing global needs for a comprehensive and holistic outlook on waste management. It is of interest to teachers, researchers, scientists, capacity builders and policymakers. Also, the book serves as additional reading material for undergraduate and graduate students of biotechnology and environmental sciences.

Gender and Forests

Climate Change, Tenure, Value Chains and Emerging Issues

Routledge This enlightening book brings together the work of gender and forestry specialists from various backgrounds and fields of research and action to analyse global gender conditions as related to forests. Using a variety of methods and approaches, they build on a spectrum of theoretical perspectives to bring depth and breadth to the relevant issues and address timely and under-studied themes. Focusing particularly on tropical forests, the book presents both local case studies and global comparative studies from Africa, Asia, and Latin America, as well as the US and Europe. The studies range from personal histories of elderly American women's attitudes toward conservation, to a combined qualitative / quantitative international comparative study on REDD+, to a longitudinal examination of oil palm and gender roles over time in Kalimantan. Issues are examined across scales, from the household to the nation state and the global arena; and reach back to the past to inform present and future considerations. The collection will be of relevance to academics, researchers, policy makers and advocates with different levels of familiarity with gender issues in the field of forestry.

Proceedings of the International Conference on Soft Computing Systems

ICSCS 2015, Volume 2

Springer The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

Equine MRI

John Wiley & Sons Equine MRI is a unique, comprehensive guide to MRI in the horse. Edited by Rachel Murray, a leading authority and researcher in the field with over ten years of equine clinical MRI experience, the book also includes contributions from worldwide experts in the subject. Divided into the following four sections, the book presents key information based on previous validation work and clinical practice: Principles of MRI, including the practicalities of image acquisition and interpretation Normal MRI anatomy and normal variations Different types of pathological change Options for clinical management and prognosis for different conditions MRI is a rapidly expanding area in veterinary medicine that confers detailed, three-dimensional information on both bone and soft tissue. Expanding clinical knowledge, improvements in technology, and practical application of MRI to the standing and recumbent horse means this useful imaging modality has become an integral and essential part of the diagnostic evaluation in lameness and is a realistic option for investigation of ophthalmological, neurological and cranial pathology. Equine MRI enables readers to understand the best ways to achieve good quality images, and provides a detailed explanation of the problems that may occur. With close to 950 normal and abnormal images, this book offers considerable detail and examples of both common and uncommon problems, making it a great reference for equine veterinarians, veterinary students, specialists in equine surgery, and specialists in veterinary imaging.

Activation of Small Molecules

Organometallic and Bioinorganic Perspectives

John Wiley & Sons The first to combine both the bioinorganic and the organometallic view, this handbook provides all the necessary knowledge in one convenient volume. Alongside a look at CO₂ and N₂ reduction, the authors discuss O₂, NO and N₂O binding and reduction, activation of H₂ and the oxidation catalysis of O₂. Edited by the highly renowned William Tolman, who has won several awards for his research in the field.

Designing Sustainability for All

The Design of Sustainable Product-Service Systems

Applied to Distributed Economies

Springer Nature This open access book introduces design for Sustainable Product-Service Systems (S.PSS) and for Sustainable Distributed Economies (S.DE). These are introduced as technical and operative tools for the development of a new generation of designers, responsible and capable of designing environmentally, socially and economically sustainable solutions, accessible to all. The book provides a comprehensive framework and also practical tools to support the system design for sustainability process. It overviews methodologies, tools and strategies for Sustainable PSS design applied to Distributed Economies (DE) and provides strategies and design guidelines. All of these are highlighted and expanded upon with international case studies.

Sixteen Cowries

Yoruba Divination from Africa to the New World

Indiana University Press "... a landmark in research of African oral traditions." —*African Arts* "... a significant contribution to the understanding of Yoruba religious belief, magic, and art." —*Journal of Religion in Africa* Yoruba texts and English translations of a divination system that originated in Nigeria and is widely practiced today by male and female diviners in the diaspora. A landmark edition.

Bioremediation and Biotechnology

Sustainable Approaches to Pollution Degradation

Springer Nature Toxic substances threatens aquatic and terrestrial ecosystems and ultimately human health. The book is a thoughtful effort in bringing forth the role of biotechnology for bioremediation and restoration of the ecosystems degraded by toxic and heavy metal pollution. The introductory chapters of the book deal with the understanding of the issues concerned with the pollution caused by toxic elements and heavy metals and their impacts on the different ecosystems followed by the techniques involved in monitoring of the pollution. These techniques include use of bio-indicators as well as modern techniques for the assessment and monitoring of toxicants in the environment. Detailed chapters discussing the role of microbial biota, aquatic plants, terrestrial plants to enhance the accumulation efficiency of these toxic and heavy metals are followed by remediation techniques involving myco-remediation, bio-pesticides, bio-fertilizers, phyto-remediation and rhizo-filtration. A sizable portion of the book has been dedicated to the advanced bio-remediation techniques which are finding their way from the laboratory to the field for revival of the degraded ecosystems. These involve bio-films, micro-algae, genetically modified plants and filter feeders. Furthermore, the book is a detailed comprehensive account for the treatment technologies from unsustainable to sustainable. We believe academicians, researchers and students will find this book informative as a complete reference for biotechnological intervention for sustainable treatment of pollution.

Polymer Rheology

Oxford Textbook of Medical Mycology

Oxford University Press The Oxford Textbook of Medical Mycology is a comprehensive reference text which brings together the science and medicine of human fungal disease. Written by a leading group of international authors to bring a global expertise, it is divided into sections that deal with the principles of mycology, the organisms, a systems based approach to management, fungal disease in specific patient groups, diagnosis, and treatment. The detailed clinical chapters take account of recent international guidelines on the management of fungal disease. With chapters covering recent developments in taxonomy, fungal genetics and other 'omics', epidemiology, pathogenesis, and immunology, this textbook is well suited to aid both scientists and clinicians. The extensive illustrations, tables, and in-depth coverage of topics, including discussion of the non-infective aspects of allergic and toxin mediated fungal disease, are designed to aid the understanding of mechanisms and pathology, and extend the usual approach to fungal disease. This textbook is essential reading for microbiologists, research scientists, infectious diseases clinicians, respiratory physicians, and those managing immunocompromised patients. Part of the Oxford Textbook in Infectious Disease and Microbiology series, it is also a useful companion text for students and trainees looking to supplement mycology courses and microbiology training.

Advanced Computing Technologies and Applications

Proceedings of 2nd International Conference on

Advanced Computing Technologies and

Applications—ICACTA 2020

Springer Nature This book features selected papers presented at the 2nd International Conference on Advanced Computing Technologies and Applications, held at SVKM's Dwarkadas J. Sanghvi College of Engineering, Mumbai, India, from 28 to 29 February

2020. Covering recent advances in next-generation computing, the book focuses on recent developments in intelligent computing, such as linguistic computing, statistical computing, data computing and ambient applications.

Advancing Frontiers in Mycology & Mycotechnology

Basic and Applied Aspects of Fungi

Springer Nature The book provides an introduction to the basics of fungi, discussing various types ranging from edible mushrooms to *Neurospora* - a model system for genetics and epigenetics. After addressing the classification and biodiversity of fungi, and fungi in different ecological niches, it describes the latest applications of fungi, their role in sustainable environments and in alleviating stress in plants, as well as their role in causing plant and animal diseases. Further chapters explore the advances in fungal interactions research and their implications for various systems, and discuss plant-pathogen interactions. The book also features a section on bioprospecting, and is an extremely interesting and informative read for anybody involved in the field of mycology, microbiology and biotechnology teaching and research.

Fungi in Bioremediation

Cambridge University Press An authoritative account of the application of fungi to the treatment of environmental pollution.

Engendering Climate Change

Learnings from South Asia

Taylor & Francis This book focuses on the gendered experiences of environmental change across different geographies and social contexts in South Asia and on diverse strategies of adapting to climate variability. The book analyzes how changes in rainfall patterns, floods, droughts, heatwaves and landslides affect those who are directly dependent on the agrarian economy. It examines the socio-economic pressures, including the increase in women's work burdens both in production and reproduction on gender relations. It also examines coping mechanisms such as male migration and the formation of women's collectives which create space for agency and change in rigid social relations. The volume looks at perspectives from India, Pakistan, Bangladesh and Nepal to present the nuances of gender relations across borders along with similarities and differences across geographical, socio-cultural and policy contexts. This book will be of interest to researchers and students of sociology, development, gender, economics, environmental studies and South Asian studies. It will also be useful for policymakers, NGOs and think tanks working in the areas of gender, climate change and development.

Masters Theses in the Pure and Applied Sciences

Accepted by Colleges and Universities of the United States and Canada. Volume 24

Springer Science & Business Media Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS) * at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volume were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 24 (thesis year 1979) a total of 10,033 theses titles from 26 Canadian and 215 United States universities. We are sure that this broader base for theses titles reported will greatly enhance the value of this important annual reference work. While Volume 24 reports these submitted in 1979, on occasion, certain universities do report theses submitted in previous years but not reported at the time.

Appointment of Judges to the Supreme Court of India

Transparency, Accountability, and Independence

Oxford University Press, USA In *Supreme Court Advocates-on-Record Association v. Union of India*, the Supreme Court of India, by majority, struck down the National Judicial Appointments Commission (NJAC), established to appoint judges to the Supreme Court of India and High Courts. Unsurprisingly, the NJAC judgment has been the subject of a deeply polarized debate in the public sphere and academia. The essays in this volume analyse the NJAC judgment, and provide a rich context to it, in terms of philosophical,

comparative, and constitutional issues that underpin it. The work traces the history of judicial appointments in India; analyses constitutional principles behind selecting judges and their application in the NJAC Case; and comparatively examines the judicial appointments process in six select countries-UK, South Africa, Pakistan, Sri Lanka, Canada, and Nepal-enquiring into what makes a good judge and an effective appointments process.

Reservoir Characterization

Elsevier Reservoir Characterization is a collection of papers presented at the Reservoir Characterization Technical Conference, held at the Westin Hotel-Galleria in Dallas on April 29-May 1, 1985. Conference held April 29-May 1, 1985, at the Westin Hotel—Galleria in Dallas. The conference was sponsored by the National Institute for Petroleum and Energy Research, Bartlesville, Oklahoma. Reservoir characterization is a process for quantitatively assigning reservoir properties, recognizing geologic information and uncertainties in spatial variability. This book contains 19 chapters, and begins with the geological characterization of sandstone reservoir, followed by the geological prediction of shale distribution within the Prudhoe Bay field. The subsequent chapters are devoted to determination of reservoir properties, such as porosity, mineral occurrence, and permeability variation estimation. The discussion then shifts to the utility of a Bayesian-type formalism to delineate qualitative "soft" information and expert interpretation of reservoir description data. This topic is followed by papers concerning reservoir simulation, parameter assignment, and method of calculation of wetting phase relative permeability. This text also deals with the role of discontinuous vertical flow barriers in reservoir engineering. The last chapters focus on the effect of reservoir heterogeneity on oil reservoir. Petroleum engineers, scientists, and researchers will find this book of great value.

Alternative Futures

India Unshackled

A remarkable, first-ever collection of 35 essays on India's future, by a diverse set of authors - activists, researchers, media practitioners, those who have influenced policies and those working at the grassroots. This book brings together scenarios of an India that is politically and socially egalitarian, radically democratic, economically sustainable and equitable, and socio-culturally diverse and harmonious. *Alternative Futures: India Unshackled* covers a wide range of issues, organized under four sections. It explores ecological futures including environmental governance, biodiversity conservation, water and energy. Next, it envisions political futures including those of democracy and power, law, ideology, and India's role in the globe. A number of essays then look at economic futures, including agriculture, pastoralism, industry, crafts, villages and cities, localization, markets, transportation and technology. Finally, it explores socio-cultural futures, encompassing languages, learning and education, knowledge, health, sexuality and gender, and marginalized sections like dalits, adivasis, and religious minorities. Introductory and concluding essays tie these diverse visions together. Most essays include both futuristic scenarios and present initiatives that demonstrate the possibility of such futures. At a time when India faces increasing polarization along parochial, physical and mental boundaries, these essays provide a breath of fresh air and hope in the grounded possibilities for an alternative, decentralized, eco-culturally centred future. The essays range from the dreamy-eyed to the hard-headed, from the provocative to the gently persuasive. This book would hold appeal for a wide range of readers - youth, academics, development professionals, policy makers, government officials, activists, people's movements, media persons, business persons - concerned about the current state of India and the world, and willing to engage critically in the collective search for a better future.

Pluriverse

A Post-Development Dictionary

Tulika Books This is a collection of over a hundred essays on alternatives to the dominant processes of globalized development, including its structural roots in modernity, capitalism, state domination, and masculinist values. The book presents views and practices from around the world in a collective search for an ecologically and socially just world.

Oilfield Reservoir Souring

Proceedings of the Third International Conference on Microelectronics, Computing and Communication Systems

MCCS 2018

Springer The book presents high-quality papers from the Third International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green

energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed in the book provide excellent reference material for future product development.

Dilemmas of Energy Transitions in the Global South

Balancing Urgency and Justice

Routledge This book explores how, in the wake of the Anthropocene, the growing call for urgent decarbonisation and accelerated energy transitions might have unintended consequences for energy poverty, justice and democracy, especially in the global South. *Dilemmas of Energy Transitions in the Global South* brings together theoretical and empirical contributions focused on rethinking energy transitions conceptually from and for the global South, and highlights issues of justice and inclusivity. It argues that while urgency is critical for energy transitions in a climate-changed world, we must be wary of conflating goals and processes, and enquire what urgency means for due process. Drawing from a range of authors with expertise spanning environmental justice, design theory, ethics of technology, conflict and gender, it examines case studies from countries including Bolivia, Sri Lanka, India, The Gambia and Lebanon in order to expand our understanding of what energy transitions are, and how just energy transitions can be done in different parts of the world. Overall, driven by a postcolonial and decolonial sensibility, this book brings to the fore new concepts and ideas to help balance the demands of justice and urgency, to flag relevant but often overlooked issues, and to provide new pathways forward. This volume will be of great interest to students and scholars of energy transitions, environmental justice, climate change and developing countries. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/oa-edit/10.4324/9781003052821> has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

Annual Report

1891 (1892)

Biological Consequences of Plate Tectonics

New Perspectives on Post-Gondwana Break-up—A Tribute to Ashok Sahni

Springer Nature This book recognizes and celebrates the contributions of Professor Ashok Sahni to the field of paleontology. Prof. Sahni established a School of Vertebrate Palaeontology at Panjab University, Chandigarh, India, where he trained many of today's vertebrate paleontologists of India. The book covers topics on evolutionary patterns, macroevolutionary events, origination and radiation events, changes in physical environments & climate and their implications for biodiversity dynamics, intercontinental affinities and biogeographic connections in a plate tectonic framework. The book begins by exploring India in the age of the dinosaurs, discussing new fossil remains from the Jurassic Era, then moves through the Cretaceous and Eocene to provide a picture on faunal and floral changes in Gondwanaland in the context of plate tectonics. Furthermore, the book explores the evolutionary patterns and biotic dispersals that resulted from the northward drift of Indian plate during the Cretaceous and its collision with Asia in the Eocene. The respective chapters reveal the role of plate tectonics and climate in shaping the geographical distribution of plants and animals in Gondwana, specifically in India, as well as the post-India/Asia collision implications for biodiversity changes and biogeography in the region's continental environments. Given its scope, the book will appeal to vertebrate paleontologists, evolutionary biologists, and paleobiogeographers.

Diagenetic Models and Their Implementation

Modelling Transport and Reactions in Aquatic Sediments

Springer Verlag The study of sedimentary chemistry and its associated processes is becoming far more mathematical. This new emphasis is being driven by pressures originating from both basic research and field applications. There is a growing desire to gain a quantitative understanding of the reasons for the natural chemical changes observed in sediments as they are buried. Past textbooks have not emphasized the steps necessary to develop transport-reaction (diagenetic) models themselves nor methods for their solution. This book attempts to correct this situation by presenting a detailed account of model formulation by explaining some useful solution techniques. The choice of material illustrates methods that are simple to explain and implement, yet powerful enough to attack even the most complicated diagenetic problems. Computer programs that implement and illustrate the numerical methods are also made available.

Removal of Emerging Contaminants Through Microbial Processes

Springer Nature The abundance of organic pollutants found in wastewater affect urban surface waters. Traditional wastewater management technologies focus on the removal of suspended solids, nutrients and bacteria, however, new pollutants such as synthetic or naturally occurring chemicals are often not monitored in the environment despite having the potential to enter the environment and cause adverse ecological and human health effects. Collectively referred to as "emerging contaminants," they are mostly derived from domestic activities and occur in trace concentrations ranging from pico to micrograms per liter. Environmental contaminants are resistant to conventional wastewater treatment processes and most of them remain unaffected, causing contamination of receiving water. This in turn leads to the need for advanced wastewater treatment processes capable of removing environmental contaminants to ensure safe fresh water sources. This book provides an up-to-date overview of the current bioremediation strategies, including their limitations, challenges and their potential application to remove environmental pollutants. It also introduces the latest trends and advances in environmental bioremediation, and presents the state-of-the-art in biological and chemical wastewater treatment processes. As such, it will appeal to researchers and policy-makers, as well as undergraduate and graduate environmental sciences students.

Developments in Engineering Geology

Geological Society of London Developments in Engineering Geology is a showcase of the diversity in the science and practice of engineering geology. All branches of geology are applicable to solving engineering problems and this presents a wide frontier of scientific opportunity to engineering geology. In practice, diversity represents a different set of challenges with the distinctive character of the profession derived from the crossover between the disciplines of geology and engineering. This book emphasizes the importance of understanding the geological science behind the engineering behaviour of a soil or rock. It also highlights a continuing expansion in the practice areas of engineering geology and illustrates how this is opening new frontiers to the profession thereby introducing new knowledge and technology across a range of applications. This is initiating an evolution in the way geology is modelled in engineering, geohazard and environmental studies in modern and traditional areas of engineering geology.

The Evolution of Geotech - 25 Years of Innovation

CRC Press This publication includes 82 technical papers presented at Rocscience International Conference (RIC) 2021, held online on April 20 and 21, 2021. Rocscience created this event to bring geotechnical academics, researchers and practitioners together to exchange ideas as part of celebrating 25 years of the company's existence. The papers in these proceedings were from keynotes, panel discussions and papers, selected after careful review of over 100 technical submissions delivered at RIC 2021. The technical papers were grouped into sessions based on their subject areas. The conference aimed to stimulate discussions that could help the industry work towards overcoming geotechnical engineering limitations today. It also sought to foster creative thinking that will advance the current states of the art and practice. The keynote addresses, panel discussions and technical presentations tried to examine geotechnical problems and situations from fresh perspectives. RIC 2021 hopes that the proceedings will continue to enrich our thinking and contribute to achieving a critical mass of change in our practices and approaches. We look forward to significant improvements in our industry.

Metagenomics: Techniques, Applications, Challenges and Opportunities

Springer Nature This book summarizes the various areas of research in metagenomics and their potential applications in medicine, the environment and biotechnology. The book presents the recent advances in theoretical, methodological and applied aspects of metagenomics and highlights their applications in the fields of environmental microbial forensics, bioremediation, drug-discovery and agriculture. In addition, the book discusses various metagenomics approaches used for understanding the microbial physiology and biochemistry. Lastly the book describes a range of bioinformatics tools and computational methods for metagenomics analysis as well as the functional diversity and dynamics of microbial communities colonizing the human skin.

Gender and Climate Change: An Introduction

Routledge Although climate change affects everybody it is not gender neutral. It has significant social impacts and magnifies existing inequalities such as the disparity between women and men in their vulnerability and ability to cope with this global phenomenon. This new textbook, edited by one of the authors of the seminal *Women and the Environment in the Third World: Alliance for the Future* (1988) which first exposed the links between environmental degradation and unequal impacts on women, provides a comprehensive introduction to gender aspects of climate change. Over 35 authors have contributed to the book. It starts with a short history of the thinking and practice around gender and sustainable development over the past decades. Next it provides a theoretical framework for analyzing climate change manifestations and policies from the perspective of gender and human security. Drawing on new research, the actual and potential effects of climate change on gender equality and women's vulnerabilities are examined, both in rural and urban contexts. This is illustrated with a rich range of case studies from all over the world and valuable lessons are drawn from these real experiences. Too often women are primarily seen as victims of climate change, and their positive roles as agents of change and

contributors to livelihood strategies are neglected. The book disputes this characterization and provides many examples of how women around the world organize and build resilience and adapt to climate change and the role they are playing in climate change mitigation. The final section looks at how far gender mainstreaming in climate mitigation and adaptation has advanced, the policy frameworks in place and how we can move from policy to effective action. Accompanied by a wide range of references and key resources, this book provides students and professionals with an essential, comprehensive introduction to the gender aspects of climate change.