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"Biochar is the carbon-rich product when biomass (such as wood, manure, or crop residues) is heated in a closed container with little or no available air. It can be used to improve agriculture and the environment in several ways, and its stability in soil and superior nutrient-retention properties make it an ideal soil amendment to increase crop yields. In

addition to this, biochar sequestration, in combination with sustainable biomass production, can be carbon-negative and therefore used to actively remove carbon dioxide from the atmosphere, with major implications for mitigation of climate change. Biochar production can also be combined with bioenergy production through the use of the gases that are given off in the pyrolysis process. This book is the first to synthesize the expanding research literature on this topic. The book's interdisciplinary approach, which covers engineering, environmental

sciences, agricultural sciences, economics and policy, is a vital tool at this stage of biochar technology development. This comprehensive overview of current knowledge will be of interest to advanced students, researchers and professionals in a wide range of disciplines"--Provided by publisher.

[From Fundamentals to Applications in Geotechnics](#) CRC Press

First published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.

Engineering Geology for Tomorrow's Cities

CRC Press
 Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited, keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering (Rome, Italy, 17-20 June 2019). The contributions deal with recent developments and advancements as well as case histories, field monitoring, experimental characterization, physical and analytical modelling, and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them. The book is divided in the sections below: Invited papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefact Projects Special Session on Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions provides a significant up-to-date collection of recent experiences and

developments, and aims at engineers, geologists and seismologists, consultants, public and private contractors, local national and international authorities, and to all those involved in research and practice related to Earthquake Geotechnical Engineering.

Blue Carbon CRC Press

This report explores the potential for mitigating the impacts of climate change by improved management and protection of marine ecosystems and especially the vegetated coastal habitat, or blue carbon sinks. The objective of this report is to highlight the critical role of the oceans and ocean ecosystems in maintaining our climate and in assisting policy makers to mainstream an oceans agenda into national and international climate change initiatives. While emissions' reductions are currently at the centre of the climate change discussions, the critical role of the oceans and ocean ecosystems has been vastly overlooked.

Hispanic Engineer World Scientific Publishing Company

Explains the factors which determine and control the engineering properties of soils- particularly volume change, deformation,

strength and permeability. New to this edition: expanded coverage of residual and tropical soils, environmental aspects of soil behavior, material on partly saturated soils, revised treatment of direct or coupled hydraulic, chemical, thermal and electrical flows through soil.

Stratigraphy and Paleolimnology of the Green River Formation, Western USA

Cambridge University Press

This book provides the reader relevant information about actual knowledge about the process of allelopathy, covering all aspects from the molecular to the ecological level. Special relevance is given to the physiological and ecophysiological aspects of allelopathy. Several ecosystems are studied and methodological considerations are taken into account in several different chapters. The book has been written to be useful both for Ph.D. students and for senior researchers, so the chapters include all necessary information to be read by beginners, but they also include a lot of useful information and discussion for the initiated.

Geological Engineering Geological Society of London

This book is intended as a useful handbook

for professionals and researchers in the areas of Physical Oceanography, Marine Geology, Coastal Geomorphology and Coastal Engineering and as a text for graduate students in these fields. With its emphasis on boundary layer flow and basic sediment transport modelling, it is meant to help fill the gap between general hydrodynamic texts and descriptive texts on marine and coastal sedimentary processes. The book commences with a review of coastal bottom boundary layer flows including the boundary layer interaction between waves and steady currents. The concept of eddy viscosity for these flows is discussed in depth because of its relation to sediment diffusivity. The quasi-steady processes of sediment transport over flat beds are discussed. Small scale coastal bedforms and the corresponding hydraulic roughness are described. The motion of suspended sand particles is studied in detail with emphasis on the possible suspension maintaining mechanisms in coastal flows. Sediment pickup functions are provided for unsteady flows. A new combined convection-diffusion model is provided for suspended sediment distributions. Different methods

of sediment transport model building are presented together with some classical models.

Geological Engineering CRC Press

Unlike similar titles providing general information on ground improvement, *Jet Grouting: Technology, Design and Control* is entirely devoted to the role of jet grouting – its methods and equipment, as well as its applications. It discusses the possible effects of jet grouting on different soils and examines common drawbacks, failures and disadvantages, recent advances, critical reviews, and the range of applications, illustrated with relevant case studies. The book addresses several topics involving this popular worldwide practice including technology issues, the interpretation of the mechanisms taking place during the grouting, the quantitative prediction of their effects, the design of jet-grouted structures, and procedures for controlling jet grouting results. Discusses the design criteria for jet grouting projects and reviews existing design rules and codes of practice of different countries Provides practical methods for design calculations of the most important jet-grouted structures such as foundations,

earth retaining walls, water cut-offs, bottom plugs, and provisional tunnel supports Includes the current standard control methods and most innovative techniques reported for the implementation of quality control and quality assurance procedures *Jet Grouting: Technology, Design and Control* analyzes the typical jet-grouted structures, such as foundations, earth retaining walls, water cut-offs, bottom plugs and tunnel supports, and serves as a practical manual for the correct use of jet grouting technology.

Ei Engineering Conference Index IOS Press

Rock Engineering and Rock Mechanics: Structures in and on Rock Masses covers the most important topics and state-of-the-art in the area of rock mechanics, with an emphasis on structures in and on rock masses. The 255 contributions (including 6 keynote lectures) from the 2014 ISRM European Rock Mechanics Symposium (EUROCK 2014, Vigo, Spain, 27-29 Ma
The World of Learning 2001 Routledge
Summing up knowledge and understanding of engineering geology as is applies to the urban environment at the

start of the 21st century, this volume demonstrates that: working standards are becoming internationalised; risk assessment is driving decision-making; geo-environmental change is becoming better understood; greater use of underground space is being made; and IT advances are improving subsurface visualization. --

The Engineering Index Springer Science & Business Media

Contains information on international organizations and individual chapters on academic institutions in countries from Afghanistan to Zimbabwe. A comprehensive index is included in both volumes.

The Martian Surface Springer Science & Business

Since its creation in 1884, Engineering Index has covered virtually every major engineering innovation from around the world. It serves as the historical record of virtually every major engineering innovation of the 20th century. Recent content is a vital resource for current awareness, new production information, technological forecasting and competitive intelligence. The world's most

comprehensive interdisciplinary engineering database, Engineering Index contains over 10.7 million records. Each year, over 500,000 new abstracts are added from over 5,000 scholarly journals, trade magazines, and conference proceedings. Coverage spans over 175 engineering disciplines from over 80 countries. Updated weekly.

Guide to Geoscience Departments in the United States and Canada CRC Press

This comprehensive reference volume surveys the development of crusts on solid planets and satellites in the solar system. *Reservoir Geophysics* Cambridge University Press

Phenomenal new observations from Earth-based telescopes and Mars-based orbiters, landers, and rovers have dramatically advanced our understanding of the past environments on Mars. These include the first global-scale infrared and reflectance spectroscopic maps of the surface, leading to the discovery of key minerals indicative of specific past climate conditions; the discovery of large reservoirs of subsurface water ice; and the detailed in situ roving investigations of three new landing sites.

This an important, new overview of the compositional and mineralogic properties of Mars since the last major study published in 1992. An exciting resource for all researchers and students in planetary science, astronomy, space exploration, planetary geology, and planetary geochemistry where specialized terms are explained to be easily understood by all who are just entering the field.

Jet Grouting Springer Science & Business Media

This volume presents a suite of detailed stratigraphic and sedimentologic investigations of the Eocene Green River Formation of Wyoming, Colorado and Utah, one of the world's foremost terrestrial archives of lacustrine and alluvial deposition during the warmest portion of the early Cenozoic. Its twelve chapters encompass the rich and varied record of lacustrine stratigraphy, sedimentology, geochronology, geochemistry and paleontology. Chapters 2-9 provide detailed member-scale synthesis of Green River Formation strata within the Greater Green River, Fossil, Piceance Creek and Uinta Basins, while its final two chapters address its enigmatic

evaporite deposits and ichnofossils at broad, interbasinal scale.

Rock Engineering and Rock Mechanics: Structures in and on Rock Masses Springer
The Landscapes and Landforms of Spain provides an informative and inviting overview of the geology and geomorphology of Spain. It incorporates a diverse range of topics, ranging from the fiery landscapes of the Canary Islands and its volcanic formations to the glacial scenery of the Pyrenees. The book devotes attention to granite landforms, karst terrains, coastal dunes and marshes, as well as to heritage and conservation, with the objective of offering the reader a comprehensive insight into the Spanish geological setting. The book presents readers with the opportunity to explore Spanish landforms in detail through its highly illustrated pages and maps, making this an appealing text on the subject field.
Fundamentals of Soil Behavior Routledge
Now in full colour, the third edition of this well established book provides a readable and highly illustrated overview of the aspects of geology that are most significant to civil engineers. Sections in the book include those devoted to the

main rock types, weathering, ground investigation, rock mass strength, failures of old mines, subsidence on peats and clays, sinkholes on limestone and chalk, water in landslides, slope stabilization and understanding ground conditions. The roles of both natural and man-induced processes are assessed, and this understanding is developed into an appreciation of the geological environments potentially hazardous to civil engineering and construction projects. For each style of difficult ground, available techniques of site investigation and remediation are reviewed and evaluated. Each topic is presented as a double page spread with a careful mix of text and diagrams, with tabulated reference material on parameters such as bearing strength of soils and rocks. This new edition has been comprehensively updated and covers the entire spectrum of topics of interest for both students and practitioners in the field of civil engineering.

Proceedings, International Congress on Rock Mechanics, 5, Melbourne, 1983 CRC Press

A thorough knowledge of geology is

essential in the design and construction of infrastructures for transport, buildings and mining operations; while an understanding of geology is also crucial for those working in urban, territorial and environmental planning and in the prevention and mitigation of geohazards. Geological Engineering provides an inte

Oklahoma Geology Notes John Wiley & Sons

Vol. 7, no.7, July 1924, contains papers prepared by Canadian engineers for the first World power conference, July, 1924.

Laboratory and Field Testing of Unsaturated Soils UNEP/Earthprint

The work of geotechnical engineers contributes to the creation of safe, economic and pleasant spaces to live, work and relax all over the world. Advances are constantly being made, and the expertise of the profession becomes ever more important with the increased pressure on space and resources. This book presents the proceedings of the 15th Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XV PCSMGE), held in Buenos Aires, Argentina, in November 2015. This conference, held every four years, is an

important opportunity for international experts, researchers, academics, professionals and geo-engineering companies to meet and exchange ideas and research findings in the areas of soil mechanics, rock mechanics, and their applications in civil, mining and environmental engineering. The articles are divided into nine sections:

transportation geotechnics; in-situ testing; geo-engineering for energy and sustainability; numerical modeling in geotechnics; foundations and ground improvement; unsaturated soil behavior; embankments, dams and tailings; excavations and tunnels; and geo-risks, and cover a wide spectrum of issues from fundamentals to applications in

geotechnics. This book will undoubtedly represent an essential reference for academics, researchers and practitioners in the field of soil mechanics and geotechnical engineering. In this proceedings, approximately 65% of the contributions are in English, and 35% of the contributions are in Spanish or Portuguese.

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