

Urban Geology Process Oriented Concepts For Adaptive And Integrated Resource Management

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The process-oriented concepts for adaptive and integrated resource management introduced here describe a promising way of application. Due to the broad and system oriented scientific approach of Urban Geology, the book is recommended to professionals and practitioners." (Peter Wycisk, Environmental Earth Sciences, June, 2012)

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Introduction Urban subsurface resources and particularly urban groundwater are vulnerable to environmental impacts, and their rational management is of major importance. In this book a multidisciplinary team of specialists and scientists presents innovative process-oriented approaches to the sustainable use of these resources.

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helps to reinforce both theoretical concepts and practical applications. Many aspects of urban livelihoods and development are touched on in the book. They range from groundwater source and aquifer protection, impacts of infrastructure development, contaminated sites, urban karst process and land-subsidence, geothermal systems, to natural

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urban geology gives a consolidated view of process oriented concepts for adaptive and integrated resource management of urban environments it is internally very well organized and places the scientific questions methods concepts and case studies in a multilateral relationship and integrated resource management urban geology process

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Urban Geology Process-Oriented Concepts for Adaptive and Integrated Resource Management. Peter Huggenberger & Jannis Epting. \$109.99; \$109.99; Publisher Description. Urban subsurface resources and particularly urban groundwater are vulnerable to environmental impacts, and their rational management is of major importance. In this book a ...

Urban subsurface resources and particularly urban groundwater are vulnerable to environmental impacts, and their rational management is of major importance. In this book a multidisciplinary team of specialists and scientists presents innovative process-oriented approaches to the sustainable use of these resources. The included case studies from northwestern Switzerland describe representative environments and are relevant for urban areas in general. They illustrate the protection of groundwater; river restoration; engineering and hydrogeological questions related to urban infrastructure and management concepts; as well as monitoring, modeling and remediation strategies for contaminated sites; problems caused by karst in urban environments; the use of shallow geothermal energy; and natural hazards such as flood events and earthquakes. It is demonstrated that modern quantitative earth sciences can contribute significantly in finding solutions concerning the sustainable use of subsurface resources in urban environments. The book is an invaluable source of information for hydrogeologists, geologists, urban planners, water supply engineers, and environmental agencies.

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Engineering Geology is a multidisciplinary subject that interacts with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS) and environmental geology. This book is the only one of its kind in the Indian market that caters to the students of all these subjects. Engineers require a deep understanding, interpretation and analyses of earth sciences before suggesting engineering designs and remedial measures to combat natural disasters, such as earthquakes, volcanoes, landslides, debris flows, tsunamis and floods. This book covers all aspects of engineering geology and is intended to serve as a reference for practicing civil engineers, geotechnical engineers, marine engineers, geologists and mining engineers. Engineering Geology has also been designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced/applied geology and earth sciences. A plethora of examples and case studies relevant to the Indian context have been included for better understanding of the geological challenges faced by engineers. New in this Edition • The concept of watershed and the depiction of watershed atlas of India • Latest findings by the Indian Bureau of Mines • Recent developments in coastal engineering and innovative structures • New types of protective structures to guard against tsunamis • Role of geology in building smart cities • Environmental legislation in India

Environmental geologists use a wide range of geologic data to solve environmental problems and conflicts. Professionals and academics in this field need to know how to gather information on such diverse conditions as soil type, rock structure, and groundwater flow and then utilize it to understand geological site conditions. Field surveys, maps, well logs, bore holes, ground-penetrating radar, aerial photos, geologic literature, and more help to reveal potential natural hazards in an area or how to remediate contaminated sites. This new workbook presents accessible activities designed to highlight key concepts in environmental geology and give students an idea of what they need to know to join the workforce as an environmental geologist, engineering geologist, geological engineer, or geotechnical engineer. Exercises cover: • Preparation, data collection, and data analysis • Descriptive and engineering properties of earth materials • Basic tools used in conjunction with geoenvironmental investigations • Forces operating on earth materials within the earth • Inanimate forces operating on

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earth materials at the surface of the earth • Human activities operating on earth materials Each activity encourages students to think critically and develop deeper knowledge of environmental geology.

Today, more than 50% of the world's population lives in cities and is subject to particular environmental and economic impacts against the backdrop of an evolving planetary crisis. This book explores the intimate relationship between the quality of life of city dwellers and the quality of urban landscapes, including those regenerated through green spaces and environmental networks. Starting from the concept of "landscape" as defined by the European Landscape Convention (i.e. "an area, perceived by people, whose character is the result of the action and interaction of natural and/or human factors"), it expands upon, in particular, the interactions between the different biotic and abiotic components that contribute to the quality of the landscape and the environment. In the first part of the book, the author examines fundamental concepts and discusses a variety of relevant topics, such as the city under transformation, waste spaces, smart communities, regeneration programs, the role of environmental networks, and new instruments for decision making. The second part is devoted to a case study of the Italian Adriatic city that highlights the need for interdisciplinary interaction among researchers in apparently disparate fields, including ecology, forest botany, chemistry, biology, geology, sociology, economics, architecture, and engineering.?

This book collects selected full papers presented at the International Symposium on Energy Geotechnics 2018 (SEG-2018), held on 25th - 28th September 2018, at the Swiss Federal Institute of Technology in Lausanne (EPFL). It covers a wide range of topics in energy geotechnics, including energy geostructures, energy geostorage, thermo-hydro-chemo-mechanical behaviour of geomaterials, unconventional resources, hydraulic stimulation, induced seismicity, CO2 geological storage, and nuclear waste disposal as well as topics such as tower and offshore foundations. The book is intended for postgraduate students, researchers and practitioners working on geomechanics and geotechnical engineering for energy-related applications.

Urban riverbanks are attractive locations and highly prized recreational environments. The designs of urban river landscapes must fulfill a broad range of requirements: flood control, open space design, and ecology are as a rule the three dominant themes, and they must often be reconciled within a very restricted space. The river must be understood as a process: governed by changing water levels, shifting seasons, erosion, and sedimentation, the river environment is not a static entity but constantly changing—the design must be flexible and take this into account. This book is the product of a multi-year study that subjected more than fifty Western European projects to a comparative analysis. The

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result is a systematic catalog of effective strategies and innovative design elements. First, designers and planners are given an overview of the broad and varied spectrum of design possibilities. The book's process-oriented approach is especially helpful where the focus is on long-term, sustainable measures. The publication consists of two linked volumes that enable the reader to consult the systematic catalog and the case study section side by side. The easy-to-navigate structure and an extensive glossary provide further guidance, while the work's highly distinctive design makes it visually appealing as well and invites the reader to leaf through and explore it.

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