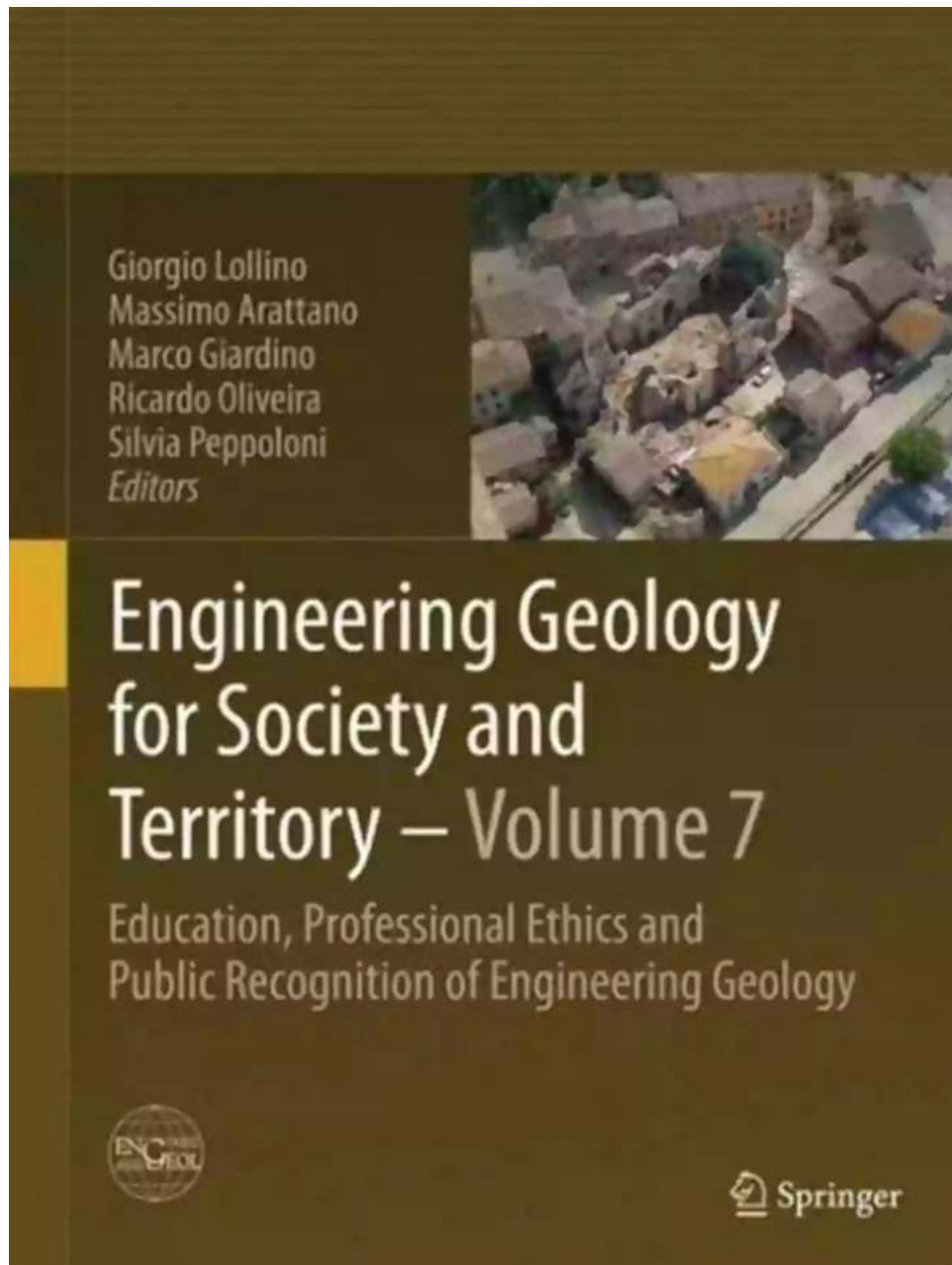


The Fascinating World of Engineering Geology: Exploring the Critical Role it Plays in Society and Territory

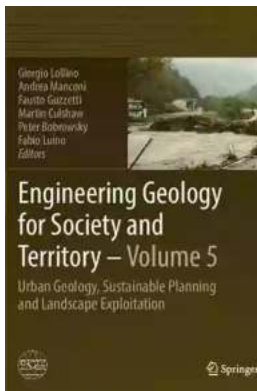


Engineering geology is a multidisciplinary field that combines principles of geology, civil engineering, and environmental science. It focuses on

understanding the geological conditions and processes that affect civil engineering and construction projects. The highly anticipated book, *Engineering Geology For Society And Territory Volume*, dives deep into this fascinating subject, providing invaluable insights and knowledge for professionals and enthusiasts alike.

Unveiling Volume Contents

The Volume is a major compilation of research papers presented at the International Symposium on Engineering Geology for Society and Territory (EGST). It comprises several chapters, each dealing with critical aspects of engineering geology and their impact on society and territory. Some of the key chapters include:



Engineering Geology for Society and Territory - Volume 5: Urban Geology, Sustainable Planning and Landscape Exploitation

by David J. Smith(2015th Edition, Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English
File size : 132971 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 1437 pages



Chapter 1: Engineering Geological Mapping

This chapter explores the vital role of geological mapping in civil engineering projects. It covers the techniques, tools, and methodologies employed in mapping

geological formations and the significance of accurate mapping for planning and construction purposes.

Chapter 2: Geotechnical Engineering

Geotechnical engineering is a crucial aspect of engineering geology that focuses on soil and rock mechanics. This chapter delves into the properties of different soil types, slope stability analysis, foundation design, and the mitigation of geotechnical hazards.

Chapter 3: Rock Mechanics

Rock mechanics is an essential aspect of engineering geology that deals with the behavior of rocks in response to various forces. This chapter discusses rock properties, rock mass classification systems, and the calculation of rock strength parameters for engineering design.

Chapter 4: Geological Hazards

Natural hazards such as landslides, earthquakes, and floods can have detrimental effects on society and infrastructure. This chapter explores the identification, assessment, and mitigation of geological hazards, ensuring the safety and sustainability of engineering projects.

Chapter 5: Environmental Geology

Environmental geology examines the interaction between human activities and the geological environment. This chapter focuses on topics like groundwater contamination, waste management, and the impact of engineering projects on ecosystems. It emphasizes the importance of sustainable practices for the overall well-being of society and territory.

Why Volume is a Must-Read

The *Engineering Geology For Society And Territory Volume* is not just another reference book in the field. It offers valuable insights into the ever-evolving challenges faced by engineers, geologists, and environmentalists. Here are a few reasons why this volume is a must-read:

1. Comprehensive Coverage

With its diverse chapters covering different facets of engineering geology, the volume provides a holistic understanding of the subject. It acts as a comprehensive guide, addressing various challenges encountered during the planning, design, and execution of engineering projects.

2. Practical Applications

The book not only presents theoretical concepts but also emphasizes practical applications. It includes case studies and real-world examples to demonstrate how engineering geology principles are put into practice. This practical approach enhances the reader's ability to apply the knowledge gained.

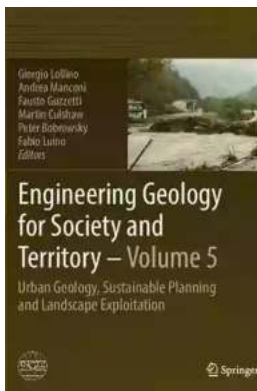
3. Expert Contributors

The volume brings together contributions from leading experts in the field of engineering geology. Their expertise and diverse perspectives enrich the content, making it a valuable resource for both seasoned professionals and those new to the field.

4. Importance of Sustainability

With a focus on sustainability, the volume highlights the significance of incorporating environmental considerations into engineering geology practices. It promotes an eco-friendly approach, ensuring the long-term well-being of both society and the natural environment.

As society progresses, the role of engineering geology becomes increasingly vital. The *Engineering Geology For Society And Territory Volume* offers a comprehensive understanding of this interdisciplinary field, helping professionals make informed decisions and contribute to sustainable development. Whether you are an engineer, geologist, or simply have a passion for geosciences, this volume is a must-have resource to deepen your knowledge and broaden your perspective.



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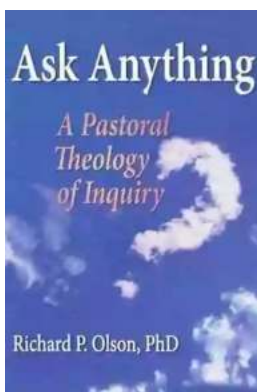


This book is one out of 8 IAEG XII Congress volumes, and deals with the theme of urban geology. Along with a rapidly growing world population, the wave of urban growth continues, causing cities to swell and new metropolitan centers to emerge. These global trends also open new ventures for underground city development. Engineering geology plays a major role in facing the increasing issues of the urban environment, such as: finding aggregates for construction works; providing adequate water supply and waste management; solving building problems associated to geological and geomorphological conditions; evaluating host rock conditions for underground constructions; preventing or mitigating

geological and seismic hazards. Furthermore, this book illustrates recent advancements in sustainable land use planning, which includes conservation, protection, reclamation and landscape impact of open pit mining and alternative power generation.

The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are:

1. Climate Change and Engineering Geology
2. Landslide Processes River Basins
3. Reservoir Sedimentation and Water Resources
4. Marine and Coastal Processes Urban Geology
5. Sustainable Planning and Landscape Exploitation
6. Applied Geology for Major Engineering Projects
7. Education, Professional Ethics and Public Recognition of Engineering Geology
8. Preservation of Cultural Heritage



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