

1. Record Nr.	UNINA9910299430803321
Titolo	Engineering Geology for Society and Territory - Volume 6 : Applied Geology for Major Engineering Projects // edited by Giorgio Lollino, Daniele Giordan, Kuroschi Thuro, Carlos Carranza-Torres, Faquan Wu, Paul Marinos, Carlos Delgado
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-09060-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (1003 p.)
Disciplina	363.728 55 621.042 624
Soggetti	Geotechnical engineering Building—Superintendence Construction industry—Management Construction superintendence Energy systems Water-supply Waste management Geotechnical Engineering & Applied Earth Sciences Construction Management Energy Systems Water Industry/Water Technologies Waste Management/Waste Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I Keynote -- Part II Addressing Geological Uncertainties in Major Engineering Projects -- Part III Applied and Active Tectonics -- Part IV Applied Geology for Infrastructure Projects -- Part V Capturing and Communicating Geologic Variability and Uncertainty -- Part VI Construction in Complex Geological Settings—The Problematic of

Predicting the Nature of the Ground -- Part VII Engineering Geological Problems in Deep Seated Tunnels -- Part VIII Engineering Geological Problems Related to Geological Disposal of High-level Nuclear Waste -- Part IX Engineering Geology and Design of Hydroelectric Power Plants -- Part X Geological Model in Major Engineering Projects -- Part XII Innovative Methods in Characterization and Monitoring of Geotechnical Structures -- Part XIII Large Projects Impact Assessment, Mitigation and Compensation -- Part XIV Properties and Behaviour of Weak and Complex Rock Masses in Major Engineering Projects.

Sommario/riassunto

This book is one out of 8 IAEG XII Congress volumes, and deals with the theme of applied geology, which is a critical theme for the global economy. In the international, multidisciplinary approach to major engineering projects (either to macro- or mega-scale), the application of geological investigation techniques is fundamental for properly selecting the location sites, planning the construction, and maintaining the infrastructures. The contributions in this book include not only engineering constructions but also case studies related to large projects on geo-resources exploration and extraction (minerals, petroleum, and groundwater), energy production (hydropower, geothermal, nuclear, and others), transportation (railway and highway), and waste disposal as well as the environmental management of these and other activities. 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: Climate Change and Engineering Geology Landslide Processes River Basins, Reservoir Sedimentation and Water Resources Marine and Coastal Processes Urban Geology, Sustainable Planning and Landscape Exploitation Applied Geology for Major Engineering Projects Education, Professional Ethics and Public Recognition of Engineering Geology Preservation of Cultural Heritage.
