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Engineering Geology for Society and Territory — Volume 4

Marine and Coastal Processes



 Springer

Engineering Geology For Society And Territory Volume 4 Marine And Coastal Processes

**Giorgio Lollino,Daniele
Giordan,Giovanni B. Crosta,Jordi
Corominas,Rafiq Azzam,Janusz
Wasowski,Nicola Sciarra**

Engineering Geology For Society And Territory Volume 4 Marine And Coastal Processes:

Engineering Geology for Society and Territory - Volume 4 Giorgio Lollino, Andrea Manconi, Jacques Locat, Yu Huang, Miquel Canals Artigas, 2014-08-12 This book is one out of 8 IAEG XII Congress volumes and deals with the processes occurring on the coastal zone which represents a critical interface between land and sea as the contribution of the ocean to the provision of energy and mineral resources will likely increase in the coming decades Several related topics fit into this volume such as coastal developments and infrastructures dredging and beach re nourishment sediment erosion transport and accumulation geohazard assessment seafloor uses seabed mapping exploration and exploitation of the seafloor of the sub seafloor and of marine clean energies and climatic and anthropogenic impacts on coastal and marine environments Examples of specific themes are coastal management and shore protection taking into account storm related events and natural and anthropogenic changes in the relative sea level planning of waste disposal remedial works for coastal pollution seafloor pipeline engineering slope stability analysis or tsunami propagation and flooding 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

Engineering Geology for Society and Territory - Volume 2 Giorgio Lollino, Daniele Giordan, Giovanni B. Crosta, Jordi Corominas, Rafiq Azzam, Janusz Wasowski, Nicola Sciarra, 2014-09-16 This book is one out of 8 IAEG XII Congress volumes and deals with Landslide processes including field data and monitoring techniques prediction and forecasting of landslide occurrence regional landslide inventories and dating studies modeling of slope instabilities and secondary hazards e g impulse waves and landslide induced tsunamis landslide dam failures and breaching hazard and risk assessment earthquake and rainfall induced landslides instabilities of volcanic edifices remedial works and mitigation measures development of innovative stabilization techniques and applicability to specific engineering geological conditions use of geophysical techniques for landslide characterization and investigation of triggering mechanisms Focuses is given to innovative techniques well documented case studies in different environments critical components of engineering geological and geotechnical investigations hydrological and hydrogeological investigations remote sensing and geophysical techniques modeling of triggering collapse run out and landslide reactivation geotechnical design and construction procedures in landslide zones interaction of landslides with structures and infrastructures and possibility of domino effects 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 Engineering Geology for Society and Territory - Volume 7 Giorgio Lollino, Massimo Arattano, Marco Giardino, Ricardo Oliveira, Silvia Peppoloni, 2014-08-12 This book is one out of 8 IAEG XII Congress volumes and deals with education and the professional ethics which scientists regulators and practitioners of engineering geology inevitably have to face through the purposes methods limitations and findings of their works This volume presents contributions on the professional responsibilities of engineering geologists the interaction of engineering geologists with other professionals recognition of the engineering geological profession and its particular contribution to society culture and economy and implications for the education of engineering geologists at tertiary level and in further education schemes Issues treated in this volume are the position of engineering geology within the geo engineering profession professional ethics and communication resource use and re use managing risk in a litigious world engineering and geological responsibility and engineering geology at tertiary level 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 Engineering Geology for Society and Territory - Volume 1 Giorgio Lollino, Andrea Manconi, John Clague, Wei Shan, Marta Chiarle, 2014-08-23 This book is one out of 8 IAEG XII Congress volumes and deals with climate change affecting different natural processes and environments such as slope dynamics water courses coastal and marine environments hydrological and littoral processes and permafrost terrain Due to climate change major effects are also expected on territorial planning and infrastructure particularly in extreme climate regions The volume and its contents aim to analyze the role of engineering geology and the solutions it may offer with respect to the ongoing environmental changes Contributions regard the modeling of both the factors and the effects induced by climate change Potential impacts of the climate change on the common practice and routine work of engineering geologists are also analyzed with particular attention to the risk assessment and mitigation procedures and to the adaptation measures adopted 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 **Engineering Geology for Society and Territory - Volume 6** Giorgio Lollino,Daniele Giordan,Kuroschi Thuro,Carlos Carranza-Torres,Faqun Wu,Paul Marinos,Carlos Delgado,2014-08-30 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 1 Climate Change and Engineering Geology 2 Landslide Processes 3 River Basins Reservoir Sedimentation and Water Resources 4 Marine and Coastal Processes 5 Urban Geology 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 Engineering Geology for Society and Territory - Volume 5 Giorgio Lollino,Andrea Manconi,Fausto Guzzetti,Martin Culshaw,Peter Bobrowsky,Fabio Luino,2014-08-25 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 **Engineering Geology for Society and Territory - Volume 3** Giorgio Lollino, Massimo Arattano, Massimo Rinaldi, Orazio Giustolisi, Jean-Christophe Marechal, Gordon E. Grant, 2014-08-21 This book is one out of 8 IAEG XII Congress volumes and deals with river basins which are the focus of many hydraulic engineering and hydrogeological studies worldwide Such studies examine river systems as both a resource of the fluvial environment and also explore river related hazards and risks The contributions of researchers from different disciplines focus on surface groundwater exchanges stream flow stream erosion river morphology and management sediment transport regimes debris flows evaluation of water resources dam operation and hydropower generation flood risks and flood control stream pollution and water quality management The contributions include case studies for advancing field monitoring techniques improving modeling and assessment of rivers and studies contributing to better management plans and policies for the river environment and water resources 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 Engineering Geology for Society and Territory - Volume 8 Giorgio Lollino, Daniele Giordan, Cristian Marunteanu, Basiles Christaras, Iwasaki Yoshinori, Claudio Margottini, 2014-08-21 This book is one out of 8 IAEG XII Congress volumes and deals with the preservation of cultural heritage In 1972 the World Heritage Convention linked in a single framework the concepts of nature conservation and the preservation of cultural sites Since then engineering geology is enlarging its contributions to national and international projects on this topic and is extending its interests to key issues like safeguarding of monuments and sites from geotechnical perspectives advanced monitoring investigations on cultural landscapes development of geo databases for cultural heritage classification studies on the interactions between humankind natural landscape evolution and cultural heritage analysis of weathering and deterioration of rock properties of monuments risk analysis of sites affected by natural hazards and many others With the contributions in this book engineering geologists conservation scientists and further experts from other

natural social and economic sciences as well as representatives of international organizations and national and local administrative authorities exchange their ideas and practices on culture heritage preservation by presenting both local case studies and multidisciplinary international projects 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 **Landslides and Engineered Slopes.**

Experience, Theory and Practice Stefano Aversa, Leonardo Cascini, Luciano Picarelli, Claudio Scavia, 2018-04-17 Landslides and Engineered Slopes Experience Theory and Practice contains the invited lectures and all papers presented at the 12th International Symposium on Landslides Naples Italy 12 19 June 2016 The book aims to emphasize the relationship between landslides and other natural hazards Hence three of the main sessions focus on Volcanic induced landslides Earthquake induced landslides and Weather induced landslides respectively while the fourth main session deals with Human induced landslides Some papers presented in a special session devoted to Subareal and submarine landslide processes and hazard and in a Young Session complete the books Landslides and Engineered Slopes Experience Theory and Practice underlines the importance of the classic approach of modern science which moves from experience to theory as the basic instrument to study landslides Experience is the key to understand the natural phenomena focusing on all the factors that play a major role Theory is the instrument to manage the data provided by experience following a mathematical approach this allows not only to clarify the nature and the deep causes of phenomena but mostly to predict future and if required manage similar events Practical benefits from the results of theory to protect people and man made works Landslides and Engineered Slopes Experience Theory and Practice is useful to scientists and practitioners working in the areas of rock and soil mechanics geotechnical engineering engineering geology and geology Coseismic Landslides Ikuo Towhata, Gonghui Wang, Qiang Xu, Chris Massey, 2022-11-04 This book is the result of an elaborate project initiated by the Joint Technical Committee JTC 1 of 1 the International Society for Soil Mechanics and Geotechnical Engineering 2 the International Association for Engineering Geology and the Environment 3 the International Society for Rock Mechanics and 4 the International Geotextile Society with the focus on natural slopes and landslides The framework of the book sets out the steps based on recent disaster experiences in the twenty first century leading to the assessment of earthquake induced landslide hazards It contains 1 important cases of landslides triggered by earthquakes around the world 2 investigation into the characteristics of ground motion site response 3 methods to determine landslide susceptibility and triggering thresholds and their comparative study

and 4 commentary on the production of earthquake induced landslide hazard maps All the contents are the result of the latest research on related areas The book is a valuable resource for researchers designers consultants academicians government officials and all others who are involved in the mitigation of coseismic landslides The book contributes toward the development of a new chapter in disaster prevention and mitigation of landslides induced by earthquakes The Ocean and Cryosphere in a Changing Climate Intergovernmental Panel on Climate Change (IPCC),2022-05-19 The Intergovernmental Panel on Climate Change IPCC is the leading international body for assessing the science related to climate change It provides policymakers with regular assessments of the scientific basis of human induced climate change its impacts and future risks and options for adaptation and mitigation This IPCC Special Report on the Ocean and Cryosphere in a Changing Climate is the most comprehensive and up to date assessment of the observed and projected changes to the ocean and cryosphere and their associated impacts and risks with a focus on resilience risk management response options and adaptation measures considering both their potential and limitations It brings together knowledge on physical and biogeochemical changes the interplay with ecosystem changes and the implications for human communities It serves policymakers decision makers stakeholders and all interested parties with unbiased up to date policy relevant information This title is also available as Open Access on Cambridge Core **Subaqueous Mass Movements and Their Consequences** D.G. Lintern,D.C. Mosher,L.G. Moscardelli,P.T. Bobrowsky,C. Campbell,J.D. Chaytor,J.J. Clague,A. Georgiopoulou,P. Lajeunesse,A. Normandeau,D.J.W. Piper,M. Scherwath,C. Stacey,D. Turmel,2019-09-25 The challenges facing submarine mass movement researchers and engineers are plentiful and exciting This book follows several high profile submarine landslide disasters that have reached the world s attention over the past few years For decades researchers have been mapping the world s mass movements Their significant impacts on the Earth by distributing sediment on phenomenal scales is undeniable Their importance in the origins of buried resources has long been understood Their hazard potential ranges from damaging to apocalyptic frequently damaging local infrastructure and sometimes devastating whole coastlines Moving beyond mapping advances the subaqueous mass movement scientists and practitioners are now also focussed on assessing the consequences of mass movements and the measurement and modelling of events hazard analysis and mitigation Many state of the art examples are provided in this book which is produced under the auspices of the United Nations Educational Scientific and Cultural Organisation Program S4SLIDE Significance of Modern and Ancient Submarine Slope LandSLIDES Volcanic Debris Avalanches Matteo Roverato,Anja Dufresne,Jonathan Procter,2020-11-16 This book presents an overview of volcanic debris avalanche deposits which are produced by partial volcanic edifice collapse a catastrophic natural phenomenon It has been 40 years since the volcanic debris avalanche associated with the 1980 eruption of Mount St Helens and our understanding of these events has grown considerably in the interim Drawing on these advances the book addresses all aspects of volcanic debris avalanches Though previously overlooked in field based geological and

volcanological studies these deposits are now known to be associated with most volcanoes and volcanic areas around the world The book presents state of the art ideas on the triggering and emplacement mechanisms of these events supported by field and analogue studies as well as new simulations tools and models used to determine their physical characteristic and hazards

Modelling Rock Fracturing Processes Baotang Shen,Ove Stephansson,Mikael Rinne,2020-05-06 This book is the second edition of the well known textbook Modelling Rock Fracturing Processes The new and extended edition provides the theoretical background of rock fracture mechanics used for modelling of 2 D and 3 D geomechanics problems and processes Fundamentals of rock fracture mechanics integrated with experimental studies of rock fracturing processes are highlighted The computer programs FRACOD 2D and 3D are used to analyse fracture initiation and propagation for the three fracture modes Mode I II and III Coupled fracture modelling with other continuous and distinct element codes including FLAC PFC RPA TOUGH are also described A series of applications of fracture modelling with importance for modern society is presented and discussed by distinguished rock fracture modelling experts

Slope Safety Preparedness for Impact of Climate Change Ken Ho,Suzanne Lacasse,Luciano Picarelli,2017-06-01 Many countries are increasingly threatened by major landslide disasters and fatalities due to extreme weather events which have major implications for public safety and the sustainability of infrastructure and the built environment A further increase in such a trend could come from climate change This book helps to fill in the gap due to the fact that landslide hazards are commonly not covered under the policy debate on climate change The book highlights the importance of raising awareness to the challenges of landslide hazards due to climate impact It provides a holistic frame for understanding the key issues and new tools that could be used to assess and manage the landslide risks The book gathers contributions from 21 countries and regions in the form of national reports or summaries with respect to four key aspects a the methods used for evaluating changing weather and changing landslide patterns b the changing weather patterns c the changing landslide patterns and hazard scenarios d the applications to risk management and the formulation of adaptation measures Recommendations are made for enhanced preparedness and resilience Improved crisis management and areas for future work are suggested

From Tsunami Science to Hazard and Risk Assessment: Methods and Models Stefano Lorito,Jörn Behrens,Finn Løvholt,Tiziana Rossetto,Jacopo Selva,2022-01-11

Natural Processes and Human Impacts Sergey M. Govorushko,2011-10-13 This highly topical book comes at a time when the two way relationship between humankind and the environment is moving inexorably to the top of the agenda It covers both sides of this delicate balancing act explaining how various natural processes influence humanity including its economic activities and engineering structures while also illuminating the ways in which human activity puts pressure on the natural environment Chapters analyze a varied selection of phenomena that directly affect people s lives from geological processes such as earthquakes and tsunamis to cosmic events such as magnetic storms The author moves on to consider the effect we have on nature ranging from the impact of heavy industry to the environmental consequences of sport and

recreational pastimes Complete with maps photographs and detailed case studies this book provides a comprehensive overview of the biggest issue we face as a species the way we relate to the natural world around us This book includes more than 100 maps showing the global distribution of different natural processes human activities and more that 450 photographs from many countries and all oceans It will provide a valuable resource for both graduate students and researchers in many fields of knowledge Sergey Govorushko is a chief research scholar at the Pacific Geographical Institute Russian Academy of Sciences He is also Professor at the Far Eastern Federal University Vladivostok Sergey Govorushko received his PhD from the Institute of Geography Russian Academy of Sciences His research activities focus on the interaction between humanity and the environment including the impact of nature on humanity the impact of humanity on the environment and assessment of the interaction environmental impact assessment environmental audit etc He has authored eight and co authored seven monographs

Advances in Natural Hazards and Volcanic Risks: Shaping a Sustainable Future Ana Malheiro, Francisco Fernandes, Helder I. Chaminé, 2023-04-20 This book comprises the selected proceedings of the 3rd International Workshop on Natural Hazards NATHAZ 22 Angra do Hero smó Terceira Island Azores 2022 The book interests all researchers and practitioners in Earth Sciences Volcanic Risks Natural Hazards Geoethics Environmental Sciences and Engineering Terceira is a volcanic island with volcanic systems with caldera Cinco Picos Guilherme Moniz Santa Bárbara and Pico Alto central volcanoes and an active fissural zone defined by various alignments of small volcanic cones lava domes and fault zones The agricultural landscape the natural and forest reserve as well as the natural pools make the island a unique place to visit The historic downtown of Angra do Hero smó is a UNESCO world heritage and several iconic buildings witness the island's geodynamic history Natural hazards result from a threat of a naturally occurring event that will have a negative effect on humans That damaging effect is often called natural disasters Among the natural hazards and potential disasters to be considered are earthquakes volcanic eruptions landslides subsidence floods droughts and coastal erosion In addition anthropogenic hazards occur as a result of human interaction with the environment They comprise technological risks due to exposure to hazardous substances in the environment Natural systems in different frameworks require a comprehensive understanding of climatology geology hydrology and volcanic data processes and dynamics Thus it is important to perform hazard and risk assessment studies to accomplish hazard mitigation In addition it highlighted the role of variability and climate change in Earth systems Furthermore an accurate understanding of the natural systems and interactions with engineering geodiversity and natural resources is vital to the entire socioeconomic sector This book is expected to offer an overview of natural hazards in model regions in Europe America Asia and the Atlantic islands It gives new insights into the characterization assessment protection and modelling of geological hazards volcanic systems urban areas coastal zones and engineering approaches by international researchers and professionals The scientific committee comprises lead geoscientists natural hazards related practitioners and academics

worldwide The main topics include 1 Multi hazards and risks sustainable society disasters and geoethics 2 Natural hazards and assessment rock falls landslides urban planning and management 3 Sustainable Earth systems hazards and climate change 4 Terceira Island geology and geodiversity meeting volcanological hazards in the Azores Climate Change 2001: The Scientific Basis J. T. Houghton, Y. Ding, D. J. Griggs, M. Noguer, P. J. van der Linden, X. Dai, K. Maskell, C. A. Johnson, 2001-07-12 Climate Change 2001 The Scientific Basis is the most comprehensive and up to date scientific assessment of past present and future climate change The report Analyses an enormous body of observations of all parts of the climate system Catalogues increasing concentrations of atmospheric greenhouse gases Assesses our understanding of the processes and feedbacks which govern the climate system Projects scenarios of future climate change using a wide range of models of future emissions of greenhouse gases and aerosols Makes a detailed study of whether a human influence on climate can be identified Suggests gaps in information and understanding that remain in our knowledge of climate change and how these might be addressed This latest IPCC assessment will again form the standard scientific reference for all concerned with climate change and its consequences including students and researchers in all aspects of environmental and atmospheric science and policymakers in governments and industry worldwide **Climate and Anthropogenic Impacts on Earth Surface Processes in the Anthropocene** Achim Beylich, Daniel Vázquez Tarrío, Dongfeng Li, Marc Oliva, Mario Morellón Marteles, 2024-10-03 Climate and Anthropogenic Impacts on Earth Surface Processes in the Anthropocene outlines our current understanding of the effects of ongoing and accelerated environmental changes on Earth surface processes and details the systematic and quantitative methodology on the actual drivers of these processes This book covers various geomorphological process domains and a wide range of terrestrial surface environments on Earth It provides a broad spectrum of advanced techniques and methods of data collection and generation together with various approaches and methods of data analysis and geomorphologic modelling This book is a valuable resource for upper level undergraduates graduates and academics studying Earth surface processes as well as researchers and professionals in needing a comprehensive overview of Earth surface process change and influence during the Anthropocene Comprehensively covers climatic and anthropogenic drivers of earth surface processes including detection and quantification techniques Includes the latest research and suggestions for adapted and sustainable mitigation and management strategies Includes worked examples and case studies of anthropogenic and climate influences on Earth surface processes

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