SALT WEATHERING HAZARDS

ANDREW GOUDIE and HEATHER VILES



Salt Weathering Hazards

Andrew S. Goudie, Nicholas J. Middleton

Salt Weathering Hazards:

Salt Weathering Hazards Andrew S. Goudie, Heather A. Viles, 1997-10-07 The hazards posed to engineering structures by salt weathering are increasing because of such diverse factors as the spread of irrigation and high levels of atmospheric pollution Salt weathering is also a potent cause of rock decay and geomorphological change in polar coastal and desert environments The book discusses the reasons why the hazards are increasing and presents striking case studies from many parts of the world It also discusses the nature and sources of different salts the mechanisms that cause the deterioration of building materials and natural rock outcrops the geomorphological processes of salt attack and their impact on landform development and the strategies and techniques that are available to combat salt attack The book is extensively illustrated and has a very comprehensive bibliography of the multi disciplinary literature Geomorphological Hazards and Disaster Prevention Irasema Alcántara, Andrew S. Goudie, 2010-03-04 A state of the art assessment of how geomorphology contributes to the comprehension mapping and modelling of hazardous Earth surface processes Geomorphological Hazards and **Disaster Prevention** Irasema Alcántara-Ayala, Andrew S. Goudie, 2010-03-04 Human activities have had a huge impact on the environment and landscape through industrialisation and land use change leading to climate change deforestation desertification land degradation and air and water pollution These impacts are strongly linked to the occurrence of geomorphological hazards such as floods landslides snow avalanches soil erosion and others Geomorphological work includes not only the understanding but the mapping and modelling of Earth's surface processes many of which directly affect human societies In addition geomorphologists are becoming increasingly involved with the dimensions of societal problem solving through vulnerability analysis hazard and risk assessment and management The work of geomorphologists is therefore of prime importance for disaster prevention An international team of geomorphologists have contributed their expertise to this volume making this a scientifically rigorous work for a wide audience of geomorphologists and other Earth scientists including those involved in environmental science hazard and risk assessment management and policy Weathering Phenomena, Conservation Strategies and Case Studies S. Siegesmund (ed.), Thomas Norbert Weiss, A. Vollbrecht (ed.),2002 Geomorphological Hazards in High Mountain Areas J. Kalvoda, C.L. Rosenfeld, 2012-12-06 On the basis of a total of thirteen case examples from the Tien Shan Karakorum Himalaya and Tangula Shan central Tibet the risk potential and hazards are inferred from the development of landscape during the Quaternary The history of glaciers can be seen as of central importance for this The Ice Age glacial erosion created V shaped valleys which with their steep flanks as a consequence of the interglacial formation of V valleys have prepared and brought about landslides as well as rockslides and the hazards combined with them The same is true for the moraines which the gla ciers have deposited high up in the valley flanks and related loose stone deposits Dry and wet mass movements follow after heavy precipitation especially in the semi arid investigation areas and are catastrophes for the settlements and the communication routes in the valley floors Their key

forms are debris cones and debris slopes as well as mudflows and alluvial fans In addition to the Ice Age glaciation history as a preparatory indirect factor the Holocene to present glaciation history is as a result of the danlming up of glacier and moraine lakes and their outbursts a direct risk factor The examples presented of acute and already occurred cases of damage were inves tigated in the years 1989 1994 Acknowledgements The authors wish to thank the Deutsche Forschungsgemeinschaft DFG the Max Planck Gesellschaft MPG the Volkswagen Stiftting VW and the Deutscher Aka demischer Austauschdienst DAAD for the financial support for the field work **Salt Crystallization in Porous Media** Hannelore Derluyn, Marc Prat, 2024-09-24 The crystallization of one or multiple salts in porous media rocks soils building materials etc is a subject of major interest in connection with numerous issues such as soil salinization evaporation CO2 injection into saline aguifers the durability of building materials and the preservation of our cultural heritage Salt Crystallization in Porous Media provides an interdisciplinary review of the key scientific knowledge required to understand this field of research and illustrates the issues involved through a series of concrete examples This book has been written for students completing their Master's level degree or higher in the field as well as researchers and engineers interested in this research It may also be of interest to a wider readership as certain sections can be used to illustrate basic concepts reaching beyond the subject of salt crystallization itself Arid and Semi-Arid Geomorphology Andrew S. Goudie, 2013-05-27 Based on four decades of research by Professor Andrew Goudie this volume provides a state of the art synthesis of our understanding of desert geomorphology It presents a truly international perspective with examples from all over the world Extensively referenced and illustrated it covers such topics as the importance of past climatic changes the variability of different desert environments rock breakdown wind erosion and dust storm generation sand dunes fluvial and slope forms and processes the role of the applied geomorphologist in desert development and conservation and the Earth as an analogue for other planetary bodies This book is destined to become the classic volume on arid and semi arid geomorphology for advanced students and researchers in physical geography geomorphology Earth science sedimentology environmental science and archaeology Structural Analysis of Historical Constructions: Anamnesis, Diagnosis, Therapy, Controls Koen Van Balen, Els Verstrynge, 2016-11-03 Structural Analysis of Historical Constructions Anamnesis diagnosis therapy controls contains the papers presented at the 10th International Conference on Structural Analysis of Historical Constructions SAHC2016 Leuven Belgium 13 15 September 2016 The main theme of the book is Anamnesis Diagnosis Therapy Controls which emphasizes the importance of all steps of a restoration process in order to obtain a thorough understanding of the structural behaviour of built cultural heritage The contributions cover every aspect of the structural analysis of historical constructions such as material characterization structural modelling static and dynamic monitoring non destructive techniques for on site investigation seismic behaviour rehabilitation traditional and innovative repair techniques and case studies A special focus has been put on six specific themes Innovation and heritage Preventive conservation

Computational strategies for heritage structures Sustainable strengthening of masonry with composites Values and sustainability and Subsoil interaction The knowledge insights and ideas in Structural Analysis of Historical Constructions Anamnesis diagnosis therapy controls make this book of abstracts and the corresponding digital full colour conference proceedings containing the full papers must have literature for researchers and practitioners involved in the structural analysis of historical constructions Desert Dust in the Global System Andrew S. Goudie, Nicholas J. Middleton, 2006-09-05 Dust storms produced by the removal of surface materials from the world's drylands are a vital component of the environment This is because of their role in biogeochemical cycling their potential influence on climate their role in sediment accumulation and their influence on human affairs This book which is exhaustively referenced explores and summarises recent research on where dust storms originate why dust storms are generated where dust is transported and deposited the nature of dust deposits and the changing frequency of dust storms over a range of time scales Stone Decay B.J. Smith, A. Turkington, 2016-01-08 This volume offers valuable insights into the nature of decay processes and the factors that control them It presents several studies on the impact of pollution on stonework in urban environments Important methodological contributions cover the mapping of facades to explain rates of decay associated with conservation actions the laboratory simulation of corrosion in polluted atmospheres the quantification of colour change through a study of the artificial ageing of building stone The effectiveness of stone treatments within the laboratory is also considered Treatise on **Geomorphology**, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth s diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has

advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned **Geomorphology** Mateo Gutierrez, 2012-12-07 This book provides a detailed coverage of the landforms of Planet Earth and the processes that shaped them The study of these morphologies some of which formed during past geological periods under environmental conditions very different from those of today makes it possible to reconstruct the evolution of relief and to infer environmental changes that have involved geological media the climate or human activity A major advance of Geomorphology in recent decades is the development of techniques that make it possible to quantify morphogenetic processes and rates at which forms change under different environmental conditions The development of Geochronology or absolute dating methods is helping us correct the limitations of relative dating that have prevailed in Geomorphology for many years The ability to assign numerical ages to both landforms and deposits opens up multiple possibilities for reconstructing the evolution of relief making correlations calculating rates and estimating recurrence periods A theme of major concern facing people today is the possible warming of the planet due to the release of greenhouse gases into the environment Investigations conducted by the scientific community show that this temperature increase is at least partially anthropogenic Given this more than probable cause and effect relationship the most sensible and prudent path is to design and apply mitigation measures to alleviate this heating that can negatively affect both the natural environment and human society The information that Geomorphology can provide on the recent past Historical Geomorphology may be very useful in making predictions on the activity of these potentially dangerous processes in the future and on the possible effects of environmental changes The aim of this book is to provide a general vision of the multiple aspects of Geomorphology and to provide a methodological foundation to approach the study of various branches of geomorphology To this end the book contains a basic bibliography that can be used for future research In addition applied aspects of Geomorphology are covered at the end of each chapter to provide knowledge of the activities of geomorphologists

in the professional world Conservation of Granite in Cultural Heritage José Delgado Rodrigues, 2025-08-26 Bridging scholarly research and conservation practice this volume presents fundamental guidance on the preservation of granite used in built heritage The field of stone conservation has long needed a holistic perspective that embraces the needs of conservation professionals and provides scientific support to enable them to better analyze preservation issues and implement efficient long lasting treatments Conservation of Granite in Cultural Heritage offers such a perspective by bridging scholarly research on the available literature related to granite decay and best practices from conservators working in the field and laboratory First offering an overview of granitic rocks and their natural weathering this volume then outlines the issues that arise when removing granite from quarries and incorporating it into what eventually becomes built heritage Case studies are presented alongside guidelines for assessing conservation problems This book will serve as a fundamental manual for students conservation scientists conservators and restorers alike Geologic Hazards of the Magna Quadrangle, Salt Lake County, Utah Jessica J. Castleton, Ashley Elliott, Greg N. McDonald, 2011-01-20 This study contains 10 1 24 000 scale GIS based geologic hazard maps that include liquafaction surface fault rupture flood hazard landslides rock fall indoor radon potential collapsible soils expanisve soils shallow bedrock and shallow groundwater potential Also includes a 73 page accompanying report that describes the hazards and provides background information on data sources the nature and distribution of hazards and possible hazard reducation measures Great Warm Deserts of the World Andrew Goudie, 2002 This is the first ever regional study of the geomorphology of the world's deserts demonstrating why different deserts have special landscape features and land forming processes It explains the climatic and tectonic history of deserts showing how the histories of the deserts have been long and complex and how they have responded to global changes in climate particularly over the course of the last few millions of years Each of the major warm deserts of the world is treated in detail and the book is extensively illustrated with numerous plates and figures A large and comprehensive bibliography Earth Environments David Huddart, Tim A. Stott, 2013-04-16 This book provides a guide to the international literature provides a comprehensive coverage of the major topics within undergraduate study programmes in geosciences environmental science physical geography natural hazards and ecology This text introduces students to the Earth's four key interdependent systems the atmosphere lithosphere hydrosphere and biosphere focussing on their key components interactions between them and environmental change Topics covered include An earth systems model components systems and processes atmospheric systems oceanography endogenic geological systems and exogenic geological systems biogeography and aspects of the Earth's Record The impact of climate and environmental change is discussed in a final chapter which draws together Earth's systems and their evolution and looks ahead to future earth changes and environments and various time periods in the geological record Throughout the book geological case studies are used in addition to the modern processes Natural Hazards Ramesh Singh, Darius Bartlett, 2018-03-22 Over the years the interactions between

land ocean biosphere and atmosphere have increased mainly due to population growth and anthropogenic activities which have impacted the climate and weather conditions at local regional and global scales Thus natural hazards related to climate changes have significantly impacted human life and health on different spatio temporal scales and with socioeconomic bearings To monitor and analyze natural hazards satellite data have been widely used in recent years by many developed and developing countries In an effort to better understand and characterize the various underlying processes influencing natural hazards and to carry out related impact assessments Natural Hazards Earthquakes Volcanoes and Landslides presents a synthesis of what leading scientists and other professionals know about the impacts and the challenges when coping with climate change Combining reviews of theories and methods with analysis of case studies the book gives readers research information and analyses on satellite geophysical data radar imaging and integrated approaches It focuses also on dust storms coastal subsidence and remote sensing mapping Some case studies explore the roles of remote sensing related to landslides and volcanoes Overall improved understanding of the processes leading to these hazardous events will help scientists predict their occurrence Features Provides information on the physics and physical processes of natural hazards their monitoring and the mapping of damages associated with these hazards Explains how natural hazards are strongly associated with coupling between land ocean atmosphere Includes a comprehensive overview of the role of remote sensing in natural hazards worldwide Examines risk assessment in urban areas through numerical modelling and geoinformation technologies Demonstrates how data analysis can be used to aid in prediction and management of natural hazards The History of the Study of Landforms or the Development of Geomorphology, Volume 5 T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume s objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology Climatic Geomorphology M. Gutierrez Elorza, 2005-12-29 During the past few decades climatic geomorphology has been substantially enlarged in knowledge thanks to numerous detailed investigations the application of a large number of techniques and the acquisition of abundant absolute dates The challenge

of predicting the effects of the prophesied future global warming on morphogenetic processes and landforms has encouraged geomorphologists to study the Late Pleistocene and Holocene climatic changes from the geomorphological and geological record The advances achieved in the field of climatic geomorphology during the past years are reflected by the publication of several specific monographs about the different morphoclimatic zones. The aim of this book is to provide an up to date general view of this branch of geomorphology It includes a chapter on applied geomorphology for each morphoclimatic zone providing an approximation of the main environmental problems Geoscientists geomorphologists **Geomorphology** David S. G. Thomas, 2011-03-14 The new edition of Arid Zone Geomorphology aims to encapsulate the advances that have been made in recent years in the investigation and explanation of landforms and geomorphological processes in drylands Building on the success of the previous two editions the Third Edition has been completely revised and updated to reflect the latest developments in the field Whilst this latest edition will remain a comprehensive reference to the subject the book has been restructured to include regional case studies throughout to enhance student understanding and is clearly defined into five distinct sections Firstly the book introduces the reader to Large Scale Controls and Variability in Drylands and then moves on to consider Surface Processes and Characteristics The Work of Water The Work of the Wind The book concludes with a section on Living with Dryland Geomorphology that includes a chapter on geomorphological hazards and the human impact on these environments Once again recognised world experts in the field have been invited to contribute chapters in order to present a comprehensive and up to date overview of current knowledge about the processes shaping the landscape of deserts and arid regions In order to broaden the appeal of the Third Edition the book has been reduced in extent by 100 pages and the Regional chapters have been omitted in favour of the inclusion of key regional case studies throughout the book The Editor is also considering the inclusion of a supplementary website that could include further images problems and case studies

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