

Stone: Properties, Durability in Man's Environment

E. M. Swinkler



Springer

Stone Properties Durability In Mans Environment

Andrew Goudie

Stone Properties Durability In Mans Environment:

Stone Erhard M. Winkler,1975-01-01 Stone E.M. Winkler,2014-03-14 As one of the most widely accessible building materials available to man natural stone has been in extensive use for many centuries It is a significant component and in places the only one of man made structures the world over and its properties applications and behavior over long periods of time constitute a story that is almost unbelievably complex Important elements of the story are described and interrelated in this volume That the exposed parts of the earth s crust provide a considerable variety of rock types is evident to any thoughtful observer To the geologist falls the task of characterizing and explaining this variety but many other kinds of specialists who are involved in the commercial use of stone also have an essential stake in the matter From quarryman to mason from architect to structural engineer and certainly from purchaser to future observer there is compelling interest in the nature appearance and durability of one stone as compared with another or of stone as compared with some other material Small wonder then that much has been written on the subject and that numerous aspects of commercial stone and its properties have appealed to a host of investigators Research in this area also has been an official concern of many organizations which in the United States include the American Society for Testing and Materials the National Bureau of Standards the U S Bureau of Mines the U S Geological Survey and several state agencies Stone Erhard M.

Winkler,2014-10-08 As one of the most widely accessible building materials available to man natural stone has been in extensive use for many centuries It is a significant component and in places the only one of man made structures the world over and its properties applications and behavior over long periods of time constitute a story that is almost unbelievably complex Important elements of the story are described and interrelated in this volume That the exposed parts of the earth s crust provide a considerable variety of rock types is evident to any thoughtful observer To the geologist falls the task of characterizing and explaining this variety but many other kinds of specialists who are involved in the commercial use of stone also have an essential stake in the matter From quarryman to mason from architect to structural engineer and certainly from purchaser to future observer there is compelling interest in the nature appearance and durability of one stone as compared with another or of stone as compared with some other material Small wonder then that much has been written on the subject and that numerous aspects of commercial stone and its properties have appealed to a host of investigators

Stone E. M. Winkler,1975 Stone Conservation Clifford A. Price,Eric Doehne,2011-02-15 First published in 1996 this volume has been substantially updated to reflect new research in the conservation of stone monuments sculpture and archaeological sites **Stone in Architecture** Erhard Winkler,2013-03-14 The readers of the first two editions of Stone Properties Durability in Man s Environment were mostly architects restoration architects of buildings and monuments in natural stone professionals who sought basic technical information for non geologists The increasing awareness of rapidly decaying monuments and their rescue from loss to future generations have urged this writer to update the 1973 and 1975

editions now unavailable and out of print Due to the 20 year long interval extensive updating was necessary to produce this new book The present edition concentrates on the natural material stone as building stone dimension stone architectural stone and decorative field stones Recently the use of stone for thin curtain walls on buildings has become fashionable The thin slabs exposed to anew unknown complexity of stresses resulting in bowing of crystalline marble has attracted much negative publicity The costs of replacing white slabs of marble on entire buildings with its legal implications have led construction companies into bankruptcy We blame many environmental problems on acid rain Does acid rain really accelerate stone decay that much Stone preservation is being attempted with an ever increasing number of chemicals applied by as many specialists to save crumbling stone Chemists filled this need during a time of temporary job scarcity while the general geologist missed this opportunity he was too deeply involved in the search for fossil fuels and metals

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Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch,1974

Concise Encyclopedia of Building and Construction Materials

Fred Moavenzadeh,Robert W. Cahn,1990 The building materials covered by the Concise Encyclopedia of Building and Construction Materials are classified in three groups structural materials semistructural materials and auxiliary materials

Industrial Minerals & Rocks Jessica Elzea Kogel,2006 News Inc Portland OR booknews com **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 Stone Mick R. Smith,1999 *Stone Decay in the Architectural Environment*

Alice V. Turkington,2005-01-01 **Stone Cleaning and the Nature, Soiling and Decay Mechanisms of Stone** Robert Gordon's Institute of Technology,1992 Brings together contributions from a wide range of specialisms and offers perspectives on issues concerning the cleaning and conservation of stone buildings Topics covered encompass not only theoretical and philosophical concerns but also problems of weathering and microbiological damage **Conservation of Historic Stone Buildings and Monuments** Committee on Conservation of Historic Stone Buildings and Monuments,1982-01-15

Paleontology of the Upper Eocene Florissant Formation, Colorado Herbert William Meyer,Dena M. Smith,2008 The Florissant formation s fossil beds and petrified forest are interesting in themselves but also shed light on questions of paleoecology macroevolution and taphonomy the study of the process of fossilization Meyer National Park Service Florissant Fossil Beds National Monument Colorado and Smith U of Colorado Museum of Natural History Paleontology geological sciences UC Boulder introduce 11 papers examining Florissant fossil flora fauna mineralogy and geochemistry through different periods and via a model of the role of microbial mats in its preservation An integrated database Web site to further related research is also discussed The monograph is well illustrated with geologic maps and images of historical figures in the field and specimens but is not indexed **Stone Decay and Conservation** Giovanni Giuseppe Amoroso,Vasco Fassina,1983

KWIC Index of Rock Mechanics Literature J P Jenkins,E. T. Brown,2016-06-03 KWIC Index of Rock Mechanics Literature Part 2 1969 1976 is an index of subjects in rock mechanics The KWIC keyword in context index is produced by cyclic permutation of significant words in the title of the publication The text covers materials in rock mechanics and geomechanics published around the 70s The book will be of great use to students researchers and practitioners of geological sciences **International Journal for Housing Science and Its Applications** ,1994 Salt Weathering

Andrew Goudie,1985 Geological Newsletter International Union of Geological Sciences,1975

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