



# Stone In Architecture

**Alfred Dwight Foster Hamlin**



## **Stone In Architecture:**

**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 a new 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

*Stone in Architecture* Siegfried Siegesmund,Rolf Snethlage,2011-01-25 The weathering of historical buildings and indeed of monuments and sculptures of natural stone is a problem that has been encountered for hundreds of years However a dramatic increase in deterioration in the structure of our built heritage has been observed during the past century To understand the complex interaction that the stone in a building suffers with its near environment the building and the macro environment the local climate and atmospheric conditions requires an interdisciplinary approach and the application of many disciplines Climate change over the next 100 years is likely to have a range of direct and indirect impacts on many natural and physical environments including the built environment The protection of our architectural heritage has both cultural and historical importance as well as substantial economic and ecological value Large sums of money are being spent world wide on measures for the preservation of monuments and historical buildings The past few decades has seen an unprecedented level of research activity in this area the results of which are often difficult to access and are summarized in the new edition of *STONE IN ARCHITECTURE*

*Stone in Architecture* Siegfried Siegesmund,Rolf Snethlage,2014-07-08 The weathering of historical buildings and indeed of monuments and sculptures of natural stone is a problem that has been encountered for hundreds of years However a dramatic increase in deterioration in the structure of our built heritage has been observed during the past century To understand the complex interaction that the stone in a building suffers with its near environment the building and the macro environment the local climate and atmospheric conditions requires an interdisciplinary approach and the application of many disciplines Climate change over the next 100 years is likely to have a range of direct and indirect impacts on many natural

and physical environments including the built environment The protection of our architectural heritage has both cultural and historical importance as well as substantial economic and ecological value Large sums of money are being spent world wide on measures for the preservation of monuments and historical buildings The past few decades has seen an unprecedented level of research activity in this area the result of which is often difficult to access and are summarized in the new edition of *STONE IN ARCHITECTURE* The 4th edition of *Stone in Architecture Properties Durability* is a sophisticated and thorough exploration of stone its properties performance and conservation in monumental contexts The current editors Siegfried Siegesmund and Rolf Snethlage note the pioneering work of Erhard Winkler who wrote the first edition in 1973 when so little information could be found in the literature on the subject This new edition also published by Springer nearly doubles the size of Winkler s 1994 effort If you are familiar with the field and need to know little more than this statement you can put aside this review and go buy the book George Wheeler Department of Scientific Research The Metropolitan Museum of Art New York [New Stone Architecture](#) David Dernie,2003 A discussion of stone construction and the nature of stone as a material Aimed at practising architects and students this study describes the new technologies that make the new stone forms possible This is followed by 33 case studies from around the world *Architectural Stone* Mark A. Chacon,1999-10-11 The past quarter century has seen a near revolution in the availability versatility and cost of architectural stone Enormous technological advances in fabrication transportation and installation have combined with the emergence of new sources of stone in China India Southeast Asia and the former Soviet Union to produce an astounding variety of choices for architects interested in incorporating stone into their designs But beyond the visual aesthetic of a sample how can an architect determine whether a particular stone possesses characteristics suitable for a specific project This is a crucial question since an improper selection can cost thousands or even millions of dollars to correct In *Architectural Stone* Mark Chacon takes the guesswork out of stone selection design and installation He provides detailed information on geological formation physical characteristics and fabrication techniques for igneous sedimentary and metamorphic stone and explains how these factors affect design and installation Taking a how to approach he offers detailed instructions for all major installation techniques and examines the materials systems and specifications required for each technique as well as methods of finishing sealing and maintaining installed stone Finally he presents detailed guidelines for the selection of stone including selection criteria and practical concerns special considerations for interior and exterior installations informal testing and practical analysis and the availability and suitability of particular types of stone The only one stop source for complete information on building stone *Architectural Stone* also provides More than 100 field photographs detailing the quarrying fabrication and installation of a wide variety of building stone Architectural details that describe the intent and use of stone in building systems Computer generated images of the geological formation of stone The first and only comprehensive reference for owners architects interior designers and other building professionals working with stone this book provides authoritative up to date

answers to critical questions on every aspect of using stone as a building material **Stone in Architecture** Siegfried Siegesmund, Rolf Snethlage, 2014-03-31 Stone in Architecture Erhard Winkler, 2014-01-15 **Stone Architecture** Alfonso Acocella, 2006 Provides an in depth analysis of the enormous potential of building in stone illustrated through a series of specially created technical drawings and a range of original drawings and photos Architects building professionals scholars and students will find both architecture and detail that will leave their mark and most likely their inspiration

**Stone in Architecture** Erhard M. Winkler, 1994 This book surveys important stone properties both physical and chemical pertinent to the needs of architects engineers and stone producers Emphasis is placed on the chemical characteristics of tech pollutants in air and water and their interaction with stone which accelerates the process of stone decay often many times faster than in rural locations in quarries or rock cuts Graphs and diagrams the scientist s language analyze and quantify the natural processes which lead to stone decay simplification of the graphs enhances their legibility not only for the student of geology environmental science engineering but also for the museum curator and conservator who deal with stone monuments Only thorough knowledge of stone properties and processes can lessen their frequent misuse and the present decay of urban stone thus enabling its prevention with preservatives The book also provides information for the stone producer and consumer for a better understanding of the product stone Back cover **Painting in Stone** Fabio

Barry, 2022-02-22 A sweeping history of premodern architecture told through the material of stone Spanning almost five millennia **Painting in Stone** tells a new history of premodern architecture through the material of precious stone Lavishly illustrated examples include the synthetic gems used to simulate Sumerian and Egyptian heavens the marble temples and mansions of Greece and Rome the painted palaces and polychrome marble chapels of early modern Italy and the multimedia revival in 19th century England Poetry the lens for understanding costly marbles as an artistic medium summoned a spectrum of imaginative associations and responses from princes and patriarchs to the populace Three salient themes sustained this lithic imagination marbles as images of their own elemental substance according to premodern concepts of matter and geology the perceived indwelling of astral light in earthly stones and the enduring belief that colored marbles exhibited a form of natural or divine painting thanks to their vivacious veining rainbow palette and chance images Stone Architecture David Dernie, 2009 The limitations of the Modernist palette have long been recognized and contemporary architects are looking to the ancient values of stone to give new expression to their ideas Its permanence is increasingly used to express a sense of civic stability or ground the fluid forms of contemporary architecture This paperback version of the book **New Stone Architecture** originally published in 2003 explores the special role of stone in a timely reassessment of the ideas that underpin today s stone renaissance The introduction uncovers the expressive possibilities of stone describes the new technologies which make the new forms possible and offers an interpretation based on the author s technical and theoretical understanding of material themes This is followed by 33 case studies from around the world Architects featured

include Michael Hopkins Kengo Kuma and Renzo Piano Publisher s website [World Stones](#) Talon Zinc,2024-10-01 The Timeless Tapestry of Stone Beauty Function and Conservation offers a comprehensive exploration of stones weaving together their aesthetic value practical applications and the urgent need for conservation This interdisciplinary work traces humanity s relationship with stones from prehistoric tools to modern engineering marvels highlighting their significance in art industry and environmental sustainability The book presents stones not as inert objects but as dynamic elements connecting us to Earth s history and human creativity Structured to guide readers through a logical progression the book begins with fundamental stone properties before delving into their roles in art architecture and mechanical engineering It culminates in a discussion of conservation efforts and sustainable stone utilization What sets this work apart is its holistic approach bridging fields such as geology anthropology and environmental science to offer a unique perspective on how stones intersect with human culture and technology The author draws upon a wide range of evidence including geological data and cutting edge materials science research to support its arguments Balancing academic rigor with accessibility The Timeless Tapestry of Stone appeals to both specialists and general readers interested in natural history engineering or environmental issues It offers practical knowledge for artisans and designers while providing theoretical insights for students and professionals in geology and environmental studies By interweaving scientific knowledge cultural insights and practical wisdom the book invites readers to see stones as bridges connecting our past present and future

**Stone Architecture in Santa Barbara** Santa Barbara Conservancy,2009-04 Building with stone requires a commitment to permanence like the extraordinary almost citywide conviction of builders in Santa Barbara from the 1870s through the 1930s As Santa Barbara was evolving from a dusty little port and outlying resort into a vibrant and growing city there occurred an extraordinary era of stone construction This was made possible by a fortuitous conjunction of factors abundant material a cadre of expert artisans and almost unlimited financing This period provided an atmosphere not only conducive to the building of public spaces homes bridges walls and an assortment of other stonework but encouraged some exceptional expressions of the stoneworkers art Many of these artistic fabrications remain a testimony to the skills and tastes of their creators and add a distinctive element to the particular ambiance that makes Santa Barbara the special place that it is

**The American Spirit in Architecture** Talbot Hamlin,1926 [Stone](#) ,1922 [Chambers's Encyclopaedia](#) Robert Chambers,1888 **Architecture and Building** ,1925

**A Text-book of the History of Architecture** Alfred Dwight Foster Hamlin,1907 [A History of Architecture in All Countries: A history of architecture in all countries. 1874](#) James Fergusson,1874 [Chambers's encyclopædia](#) Chambers W. and R., ltd,1901

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