Building Stones 4 Metamorphic Rocks Earth Learning Idea

KAMREN PARSONS

Civil Engineering Construction Materials Vikas Publishing House
This volume, produced in conjunction with the GSA North-Central Section Meeting held in Dayton, Ohio, April 2012, has a mix of papers ranging from stratigraphy, paleontology, and hydrogeology, to geomorphology, drainage basins, and building stones. The geographic spread of the chapters focuses mainly on an area bounded by those counties adjacent to Montgomery County, but also extends beyond -- from Paulding County in the north to Georgetown, Kentucky, in the south. Topics include the Silurian stratigraphy of southwestern Ohio, drainage basins of the Mad River and Little Miami River, the relationship between geology and groundwater of the Inner Bluegrass Region, Kentucky (and its connection to the distilling and aging of bourbon), and the building stones of Dayton, as well as an introduction to the geology of the Dayton area.
Building Stone, Rock Fill and Armourstone in Construction Springer
The main objective kept in mind in writing this book is to familiarize the readers with various types of construction materials their manufacture or production, classification, important physical and chemical properties, their uses advantages, disadvantages, testing etc. The book has been written in a very simple and lucid language, illustrated with neatly drawn diagrams and problems The book is designed keeping in mind syllabus of various universities, AIME, The book will prove equally useful to the practicing engineers.
New Stone Architecture Geological Society of America
This volume looks at the increasing demand for geoscientific input to planning urban land use, rectifying problems of decay and poor prior procedures, rehabilitating land after the closure of extractive and other industries, designing new constructions, and environmental assessment.
Stone House Construction Taylor & Francis
Building Materials and Construction is primarily written for the students of Civil Engineering to make them familiar with building materials and construction practices to build their interest in the field. The book starts with explanation of building material concepts and goes on to explain all the important materials like Lime, Bricks, Cement, Timber, Concrete etc. in separate chapters following the same flow as prescribed in major universities. Special emphasis is given on construction materials such as foundation work, stone and brick masonry, plastering work, door and window design, roof and floors, DPC etc.
McKay's Building Construction Springer Science & Business Media
This practice-oriented book, now in its second edition, presents a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India. Profusely illustrated with tables and diagrams, the book brings into light the basics of building materials and their specifications. Besides giving information regarding the traditional building materials, the text now acquaints the reader with up-to-date and in-depth information pertaining to modern materials available in the market. The references to IS codes and standards make this text suitable for further study and field use. The second edition possesses some substantial changes in Chapters 12, 13, 14 and 20. Now, the book offers a new section on durability of concrete in Chapter 12; a modified section regarding revision of IS 10262 (1982) code

on concrete mix design to IS 10262 (2009) and a new section on classification of exposure conditions in Chapter 13; and a new section relating to large advances made in concrete construction and repair chemicals in Chapter 14. Besides, the content of Chapter 20 has been completely updated, with a particular emphasis on the extensive use of aluminium in building construction. Primarily intended for the students pursuing undergraduate degree (B.E./B.Tech.) and diploma courses in civil engineering and architecture, the book, on account of lecture-based presentation of the subject, should also prove eminently utilitarian for the young teachers to use it in their classroom lectures as well as for practising engineers to get a clear understanding of the fundamentals of the subject. NEW TO THE SECOND EDITION Review questions at the end of each chapter enable the reader to recapitulate the topics Considerable attention is given on field practice Syllabus of laboratory work on construction materials and a model question paper (Anna University) are given in appendices to guide the reader.

Building Materials and Construction PHI Learning Pvt. Ltd.

Construction Materials, Methods and Techniques: Building for a Sustainable FutureCengage Learning

Understanding Building Stones and Stone Buildings Routledge

This book covers the wide spectrum of subjects relating to obtaining and using building stones, starting with their geological origin and then describing the nature of granites, volcanics, limestones, sandstones, flint, metamorphic stones, breccias and conglomerates, with emphasis being placed on how to recognise the different stones via the many illustrated examples from Great Britain and other countries. The life of a building stone is explained from its origin in the quarry, through its exposure to the elements when used for a building, to its eventual deterioration. The structure of stone buildings is then discussed, with explanations of the mechanics of pillars, lighthouses and walls, arches, bridges, buttresses and roof vaults, plus castles and cathedrals. The sequence of the historical architectural styles of stone buildings is explained—from the early days through to postmodern buildings. Special attention is paid to two famous architects: the Roman Vitruvius and the English Sir Christopher Wren who designed and supervised the construction of St. Paul's Cathedral in London. To demonstrate many of the concepts presented, two exemplary stone buildings are described in detail: the Albert Memorial in London and Durham Cathedral in northern England. The former building is interesting because it is comprised of a cornucopia of different building stones and the latter building because of its architecture and sandstone decay mechanisms. In the final Chapter, ruined stone buildings are discussed—the many reasons for their decay and the possibility of their 'rebirth' via digital recording of their geometry. The book has over 350 pages and is illustrated with more than 450 diagrams and colour photographs of both the various stones and the associated stone buildings. Readers' knowledge of the subject will be greatly enhanced by these images and the related explanatory text. A wide-ranging references and bibliography section is also included.

Stone Construction Materials, Methods and Techniques: Building for a Sustainable Future

One of the problems which beset the practical conservation of stone buildings is the fragmentation of the disciplines involved. This book, with both volumes now available as one invaluable paperback, brings these disciplines together by the involvement of contributors with different experiences and approaches to the same material. Part one is an introduction to the complexities and background history of stone conservation followed by the most comprehensive description yet produced of the building and decorative stones used in the British Isles. In part two, practitioners involved in stone conservation describe ways in which major structural masonry problems, secondary building problems and different stone surface conditions may be treated. A variety of building types and environments has been used to ensure that the broad scope of common problems is covered. This second part of the book will be of practical value to art historians, archaeologists, architects, surveyors and engineers, masonry contractors and sculpture conservators in solving problems and in learning to use each other's skills and experience.

Their Manufacture and Properties S. Chand Publishing

McKay offers conservation practitioners an essential understanding of the traditional forms of construction, covering the use of masonry and brickwork, carpentry and joinery, slating, plumbing and drainage. The book includes: the author's extensive, highly detailed drawings to illustrate the text; useful material on traditional craft practice - essential for undertaking repairs; and explanations of terminology and techniques - simply described.

Properties, Durability Firewall Media

"Twelve peer-reviewed papers demonstrate the continuing advancement in the understanding of dimension stone used in building construction. Topics cover: Strength Testing--addresses testing to determine strength characteristics of dimension stone cladding panels. Design--covers a wide range of topics, including the advantages and disadvantages of three common dimension stone paving installation techniques; the relationships between stone material strength, anchorage strength, and induced stress states for four common dimension stone cladding anchorage configurations; and more. Evaluation and Investigation--provides observations regarding investigations into the causes of dimension stone cladding deterioration and failure. Durability--discusses the complex issue of dimension stone durability using three different approaches; a large-scale European research project to investigate the causes of marble and limestone cladding panel bowing, develop preconstruction testing parameters to assess bowing potential, and assess proposed remedial efforts to reduce or inhibit ongoing bowing; and more."--Publisher's website.

Engineering Geology Forgotten Books

This new edition of Understanding Housing Defects has been extensively revised and includes new and revised graphics, many more photographs, and an extended text. The book is a natural companion to The Construction of Houses (first published in 1990 and now in its 3rd revision). Understanding Housing Defects provides a concise, coherent and comprehensive introduction to the causes, investigation and diagnosis of housing defects. It is aimed at all those students and practitioners who require a broad understanding of housing defects as part of a wider sphere of academic or professional activity. The book has three specific objectives, to explain why, and how, defects occur. To enable the reader to recognise and identify building defects and to provide, where appropriate, guidance on their correct diagnosis. The authors have worked in both public and private sectors and have, between them over 75 years' experience in dealing with housing and general building defects. Currently, they are all lecturers at the University of the West England, where they teach on a variety of undergraduate and post-graduate courses. They are also actively involved in carrying out research and consultancy for a number of property owning organisations throughout the UK.

Construction Materials, Methods and Techniques: Building for a Sustainable Future Springer Science & Business Media

The book has been throughly revised.Several new articles have been added,specifically,in chapters in mortar ,Concrete ,Paint:Varnishes,Distempers and Antitermite treatmant to make the book to still more comprehensive and a useful unit for the students preparing for the examination in the subject.

Building Stones and Clay-products KHANNA PUBLISHING HOUSE

Engineering Geology is a multidisciplinary subject which interacts with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc. Engineers require a deeper understanding, interpretation and analyses of earth sciences before suggesting engineering designs and remedial measures to combat natural disasters, such as earthquakes, volcanoes, landslides, debris flows, tsunamis, and floods. This book covers all aspects of Engineering Geology and is intended to serve as a reference for practicing civil engineers and mining engineers. Engineering Geology has also been designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced/applied geology and earth sciences. A plethora of examples and case studies relevant to the Indian context have been included, for better understanding of the geological challenges faced by engineers.

Dimension Stone Use in Building Construction Рипол Классик

One distinct feature of human society since the dawn of civilization is the systematic use of inorganic building materials, such as natural stone, unburnt and burnt soil, adobe and brick, inorganic binders like lime and cement, and reinforced concrete. Our heritage has cultural, architectural and technological value and preserving such structures is a key issue today. Planners and conservation scientists need detailed site surveys and analyses to create a database that will serve to guide subsequent actions. One factor in this knowledge base is an understanding of how historic materials were prepared and the crucial properties that influence their long-term behaviour. Any assessment of the way such materials perform must crucially be based on an understanding of the methods used for their analysis. The editors here add to the knowledge base treating the materials used in historic structures, their properties, technology of use and conservation, and their performance in a changing environment. The book draws together 18 chapters dealing with the inorganic materials used in historic structures, such as adobe, brick, stone, mortars, concrete and plasters. The approach is complex, covering material characterisation as well as several case studies of historic structures from Europe, including Germany, Ireland, Italy, Poland, Portugal, Scotland, Slovenia and Spain, and the My Sõn Temples in Vietnam. An equally important component of the book covers the analysis of materials, together with a treatment of sustainable development, such as the protection of monuments from earthquakes and climate change. The authors are all leading international experts, drawn from a variety of backgrounds: architecture, civil engineering, conservation science, geology and material science, with close links to professional organisations such as ICOMOS or universities and research centres throughout Europe. Audience: This book will be of interest to geologists, engineers, restorers, consulting engineers, designers and other professionals dealing with cultural heritage and sustainable development. Also graduate students in applied geo-science (mineralogy, geochemistry, petrology), architecture and civil engineering will find interesting information in this book.

Stone in Architecture CRC Press

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.

Construction Materials, Methods and Techniques Routledge

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.

Materials, Technologies and Practice in Historic Heritage Structures Geological Society of London

Provides a general account of the factors which cause decay of building stones and a summary of the best methods to reduce the incidence of decay. It discusses weathering associated with natural defects inherent in stone and examines issues of weathering caused by bad workmanship or errors in the selection of material. Decay through chemical and natural physical phenomena are discussed in detail. The final sections offer useful advice on how to prevent long term decay through appropriate repair, replacement and cleaning of stone.

Building Stones and Clays S. Chand Publishing

The book covers aspects of local stone building, from quarrying on site to building arches over openings for upper storey walls, and is a sourcebook of examples and methods to help the reader to carry on a tradition of building in local stone.

Understanding Housing Defects Natural Resources Canada

The book discusses different branches of geology, earths internal structure, composition of the earth, hydrogeology, geological structures and their impact on terrain stability and solution of several engineering problems related with stability and suitability of site for construction

Geological Field Trips in Ohio and Kentucky for the GSA North-Central Section Meeting, Dayton, Ohio, 2012 Laurence King Publishing

Includes annual reports of the state officers, departments, bureaus, boards, and commissions.

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