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A Laboratory Manual for Architectural Conservators ICCROM Master List of Acquisitions Practical Building Conservation 6th International Conference on the Conservation of Earthen Architecture Traditional Construction for a Sustainable Future Advanced Nondestructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage The Conservation of Decorated Surfaces on Earthen Architecture Vernacular and Earthen Architecture: Conservation and Sustainability Bridge Maintenance, Safety, Management, Resilience and Sustainability PRO 12: International RILEM Workshop on Historic Mortars: Characteristics and Tests Conservation of Historic Buildings Structural Analysis of Historical Constructions - 2 Volume Set Salt Deterioration of Historic Mortars in Tropical Climate: Analysis and Characterisation Anais do IV Colóquio Internacional A Casa Senhorial Preprints: Terra 2000 Managing Change ICCROM Newsletter Conservation of Historic Buildings Mimarlıkta Malzeme 13 Global Heritage Stone A Conservation Manual for the Field Archaeologist Actas del Primer Congreso Nacional de Historia de la Construcción Conservation of Architectural Heritage A Future for the Past Il restauro archeologico Manual of Curatorship La cerámica arquitectónica Conservation Science 2002 El mal de la piedra □□□□ Elements of Archaeological Conservation Protection of Historical Constructions Lo stucco Cultural Heritage in Asia and the Pacific The Foundation Grants Index The City and Complexity □□□ Moro Association for Preservation Technology International Communique Chemical Principles of Textile Conservation

A Laboratory Manual for Architectural Conservators

1986

stone considers the wide variety of historical uses from simple masonry walling through to elaborate carving and decoration the book considers why stone decays or fails and how to assess and understand the causes before concentrating on the practical methods of treatment repair and maintenance

ICCROM Master List of Acquisitions

1985

on october 14 19 1990 the 6th international conference on the conservation of earthen architecture was held in las cruces new mexico sponsored by the gci the museum of new mexico state monuments iccrom craterre eag and the national park service under the aegis of us icomos the event was organized to promote the exchange of ideas techniques and research findings on the conservation of earthen architecture presentations at the conference covered a diversity of subjects including the historic traditions of earthen architecture conservation and restoration site preservation studies in consolidation and seismic mitigation and examinations of moisture problems clay chemistry and microstructures in discussions that focused on the future the application of modern technologies and materials to site conservation was urged as was using scientific knowledge of existing structures in the creation of new low cost earthen architecture housing

Practical Building Conservation

2012

since the spread of classical design and construction amongst the upper echolons of british society in the late seventeenth century traditional construction methods have largely fallen by the wayside centuries later as the construction industry faces up to its environmental responsibilities this book explores its rich and ancient tradition to provide tried and trusted solutions to modern day construction problems by way of introduction the ancient and historical lifestyles that dictated the nature of traditional construction are explored before focussing on its health and ecological benefits as well as cultural

background this book includes a detailed scientific description of traditional building materials and their constituents which draws a sharp contrast with modern petrochemical based materials the studies of traditional buildings included reveal the sustainability of features such as natural ventilation and breathing walls and comparisons with modern construction methods show how they could prevent sick building syndrome the author argues that maintenance for long life by contrast with the modern concept of life cycle costing is at the nub of sustainability and underlies the contribution traditional building construction can make to tackling climate change over 250 original photos and over fifty bespoke diagrams illustrate the features techniques and characteristics of traditional construction that could make such a valuable contribution to the industry today the inclusion of a close study of how these methods relate to british building regulations makes this book a practical guide for construction professionals as well as an authoritative resource for students and policy makers

6th International Conference on the Conservation of Earthen Architecture

1991-02-28

this book comprises the proceedings of the third tmm ch international conference on transdisciplinary multispectral modelling and cooperation for the preservation of cultural heritage this book showcases the latest advancements in non destructive testing and structural techniques across a wide range of applications within the realm of cultural heritage the conference held at the esteemed eugenides foundation in athens greece brought together scientists engineers architects archeologists conservators geologists art historians and other stakeholders thirteen sessions and panel discussions featuring 142 esteemed panelists provided a platform for the exchange of ideas with a significant online presence and approximately 50 000 online viewers the conference had a profound impact on a global scale this book serves as a valuable resource presenting recent scientific breakthroughs non destructive techniques and technologies that contribute to the holistic preservation of our world s cultural heritage

Traditional Construction for a Sustainable

Future

2011-01-13

for millennia people of all cultures have decorated the surfaces of their domestic religious and public buildings earthen architecture in particular has been and continues to be a common ground for surface decoration such as paintings sculpted bas relief and ornamental plasterwork this volume explores the complex issues associated with preserving these surfaces case studies from asia europe africa the middle east and the americas are presented the publication is the result of a colloquium held in 2004 at mesa verde national park colorado co organized by the getty conservation institute gci and the national park service nps the meeting brought together fifty five conservators cultural resource managers materials scientists engineers architects archaeologists anthropologists and artists from eleven countries divided into four themes archaeological sites museum practice historic buildings and living traditions the papers examine the conservation of decorated surfaces on earthen architecture within these different contexts

Advanced Nondestructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage

2023-12-03

vernacular architecture in general and earthen architecture in particular with their rich variety of forms worldwide are custodians of the material culture and identity of the peoples who built them in addition they are widely recognized as ancestral examples of sustainability in all their variants and interpretations and the architecture of the present ought to learn from these when designing the sustainable architecture of the future the conservation of these architectures seemingly simple yet full of wisdom is to be undertaken now given their intrinsic value and their status as genuine examples of sustainability to be learnt from and interpreted in contemporary architecture vernacular and earthen architecture conservation and sustainability will be a valuable source of information for academics and professionals in the fields of environmental science civil engineering construction and building engineering and architecture

The Conservation of Decorated Surfaces on Earthen Architecture

2006

bridge maintenance safety management resilience and sustainability contains the lectures and papers presented at the sixth international conference on bridge maintenance safety and management iabmas 2012 held in stresa lake maggiore italy 8 12 july 2012 this volume consists of a book of extended abstracts 800 pp extensive collection of revised expert papers on recent advances in bridge maintenance safety management and life cycle performance representing a major contribution to the knowledge base of all areas of the field

Vernacular and Earthen Architecture: Conservation and Sustainability

2017-09-01

since its publication in 1982 sir bernard feilden s conservation of historic buildings has become the standard text for architects and others involved in the conservation of historic structures leading practitioners around the world have praised the book as being the most significant single volume on the subject to be published this third edition revises and updates a classic book including completely new sections on conservation of modern movement buildings and non destructive investigation the result of the lifetime s experience of one of the world s leading architectural conservators the book comprehensively surveys the fundamental principles of conservation in their application to historic buildings and provides the basic information needed by architects engineers and surveyors for the solution of problems of architectural conservation in almost every climatic region of the world this edition is organized into three complementary parts in the first the structure of buildings is dealt with in detail the second focuses attention on the causes of decay and the materials they affect and the third considers the practical role of the architect involved in conservation and rehabilitation as well as being essential reading for architects and others concerned with conservation many lay people with various kinds of responsibility for historic buildings will find this clearly written jargon free work a fruitful source of guidance and information

Bridge Maintenance, Safety, Management, Resilience and Sustainability

2012-06-21

structural analysis of historical constructions contains about 160 papers that were presented at the iv international seminar on structural analysis of historical constructions that was held from 10 to 13 november 2004 in padova italy following publications of previous seminars that were organized in barcelona spain 1995 and 1998 and guimarães portugal 2001 state of the art information is presented in these two volumes on the preservation protection and restoration of historical constructions both comprising monumental structures and complete city centers these two proceedings volumes are devoted to the possibilities of numerical and experimental techniques in the maintenance of historical structures in this respect the papers originating from over 30 countries are subdivided in the following areas historical aspects and general methodology materials and laboratory testing non destructive testing and inspection techniques dynamic behavior and structural monitoring analytical and numerical approaches consolidation and strengthening techniques historical timber and metal structures seismic analysis and vulnerability assessment seismic strengthening and innovative systems case studies structural analysis of historical constructions is a valuable source of information for scientists and practitioners working on structure related issues of historical constructions

PRO 12: International RILEM Workshop on Historic Mortars: Characteristics and Tests

2000

the contribution of this study to the general body of knowledge is in providing an understanding of the thermodynamic behaviour of soluble salt mixtures in historic buildings located in the tropical marine zone of tanzania this tropical zone is found in the eastern part of the country along the indian ocean coast this research is geared towards informing the general public most of whom believe that salt crystallisation is the main cause of historic buildings deteriorating this belief emanates from the understanding that historic buildings in a marine environment are highly susceptible to salt crystallisation more so because they tend to receive daily oceanic spray which contains salt

the problem is aggravated by the encroachment of the ocean on these buildings salt crystallisation on these structures is further complicated by air pollution owing to rapid urbanisation in these areas it is worth noting that salt crystallisation is an extremely complex process and its effect depend on many variables including climate ten historic buildings involved in this study are located in three different areas of the country eight historic buildings are located in the tropical climate 1 200 m from the indian ocean and two historic buildings are located in inland tanzania 190 km and 589 km from the ocean these two historic buildings experience a modified tropical climate and semi arid climate the criteria for selecting the buildings considered variations and the extent of salt deterioration in different parts of the country p the main goal of the study was to embark on a detailed analysis of the salt deterioration on tanzanian historic buildings which has not hitherto been fully investigated and to provide a sustainable solution to the problem through climate control this solution is needed since there is no approved conservation programme and as a result of existing government budgetary constraints very little conservation research has been done on any site or monuments except those registered under unesco the research results of this project contributes to solving the existing monument research gap thereby stimulating the initiation of a sustainable restoration programme together with the provision of the much needed government research tools this research provides information on the type of construction and building materials used during the construction of these buildings such information is vital in salt analysis and in future restoration conservation and consolidation of these buildings which provides a substantial income to the country through the tourist industry there are also other factors like the preservation of the history and culture of the country and job creation p the abundance of chloride Cl^- ions of magnesium Mg^{2+} sodium Na^+ and potassium K^+ in these buildings as identified by this study explains the survival of the historic buildings in the tropical marine areas of tanzania these ions can lead to the formation of halite NaCl sylvite KCl bischofite $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ ammonium chloride NH_4Cl and antarcticite $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$ depending on their presence and quantity in the walls of historic buildings the results of ecos runsalt program indicate that salt is not the major problem because the major ions hitherto detected form salts like halite and sylvite are mostly in liquid form under a high evaporation rate these salts easily migrate to the surface of the building s walls whereby a supersaturated solution is formed leading to surface crystallisation the surface crystallisation is evident in salt profile analysis by photospectrometry whereby the quantity of soluble salt ions decreases with depth the detachment of protective rendering the peeling off of paint and efflorescence in the

investigated historic buildings in tropical marine areas of tanzania is evidence of surface crystallisation mirabilite $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ gypsum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ and epsomite $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ can crystallize in tropical areas the SO_4^{2-} and NO_3^- ions detected in these buildings are so scanty as not to cause ionic interactions needed for the formation of destructive sodium sulphate Na_2SO_4 except in the cooperation building where SO_4^{2-} is as high as 1.8 w/w however this is not a trivial problem and should not be ignored especially because of the destructive nature of Na_2SO_4 and the increase in air pollution p laboratory simulation of the three environmental conditions using two salts Na_2SO_4 and NaCl provided similar results on the exposure of lime mortar samples in 50% relative humidity rh and 20°C 75% rh and 28°C and 85% rh and 28°C samples exposed to 85% rh and 28°C in a controlled environment showed enormous deterioration due to crystallisation of Na_2SO_4 p subsequently NaCl is the major salt and is always in the solution reducing this salt is necessary to avoid associated damage like the formation of microorganisms the hygroscopic nature of NaCl retards the drying of materials hence keeping the walls moist all the time creating a conducive environment for biocolonisation routine desalination is necessary to keep the wall dry in future Na_2SO_4 and magnesium sulphate MgSO_4 will be a problem therefore the rh within a building located in a tropical marine environment should be protected from frequent rh variations to prevent the damage associated with sulphate salts that is only if the current trend of air pollution i.e. an increase of 6% who 2014 is maintained or increased

Conservation of Historic Buildings

2007-06-07

a presente publicação reúne os artigos relativos às comunicações realizadas no iv colóquio internacional a casa senhorial anatomia dos interiores que ocorreu na cidade de pelotas no rio grande do sul nos dias 7, 8 e 9 de junho de 2017 e que foi desenvolvido no auditório do centro de artes da universidade federal de pelotas o iv colóquio internacional a casa senhorial anatomia dos interiores é uma reunião científica de pesquisadores aberta aos estudiosos de todo mundo para compartilhar e confrontar pesquisas acerca dos ambientes internos dos casarões residenciais edificadas para as classes dominantes às casas de estratos médios da população desde o século xvii ao início do xx nesta edição o evento compreendeu também a realização do i encontro internacional casas senhoriais estudos luso brasileiros em arte memória e patrimônio reunindo os estudiosos luso brasileiros do grupo de pesquisa de mesmo nome credenciado no cnpq e estende a temática para a

análise dos bens integrados às caixas murais dos prédios interna e externamente e aos jardins organizados no entorno das moradas

Structural Analysis of Historical Constructions - 2 Volume Set

2018-10-30

the 4th annual us icomos international symposium organised by us icomos the graduate program in historic preservation of the university of pennsylvania and the getty conservation institute help in philadelphia april 2001

Salt Deterioration of Historic Mortars in Tropical Climate: Analysis and Characterisation

2016-01-01

the book surveys the fundamental principles of conservation in their application to historic buildings and provides the basic information needed by architects engineers and surveyors for the solution of problems of architectural conservation in almost every climatic region of the world p 4 of cover

Anais do IV Colóquio Internacional A Casa Senhorial

2017-11-06

mimarlıkta malzeme 13 sayı

Preprints: Terra 2000

2000

heritage stones are building and ornamental stones that have special significance in human culture the papers in this volume discuss a wide variety of such materials including stones from europe asia north and south america africa and australia igneous basalt porphyry granite sedimentary sandstone limestone and metamorphic marble quartzite gneiss soapstone slate stones are featured these have been utilized over long periods of time for a wide range of uses contributing to the historic

fabric of the built environment many of these stones are of international significance and so are potential global heritage stone resources that is stones that have the requisite qualities for international recognition by the heritage stones subcommission of the international union of geological sciences the papers bring together diverse information on these stones ranging from their geological setting and quarry locations to mechanical properties current availability and uses over time as such the papers can serve as an entry into the literature on these important stones

Managing Change

2003

conservation treatments and techniques for the archaeologist in the field emphasizing how to conserve an excavated object before it is taken to a trained conservator offsite safety procedures and conservation supplies and materials are recommended techniques for lifting cleaning consolidating marking and storing are discussed along with methods for treating specific artifact materials e g amber wood appendixes cover impressions and chemical preparations

ICCROM Newsletter

2002-09

el presente volumen recoge las comunicaciones aprobadas por el comité científico del congreso la diversidad de temas y de enfoques es un reflejo de la apertura que ha presidido las reuniones así creemos que el presente volumen puede servir para hacerse una idea del estado de la historia de la construcción en españa

Conservation of Historic Buildings

1994

this book focuses on the management and conservation of architectural heritage with the aim of increasing awareness about the value of such conservation and of saving what is left of history which in turn rewards societies by supporting the tourism industry generating economic return and preserving communities identities since it has become an essential need to manage and conserve the architectural heritage in order to protect the identity and heritage of a city there appeared a gap between

the theory and its application therefore a considerable amount of attention has been directed by experts in this field toward emphasizing the contribution of heritage conservation in order to inspire the development of imaginative useful high quality design

Mimarlıkta Malzeme 13

2017-01-19

seven papers from a joint conference of english heritage and the cathedral architects association 25 26 march 1994 includes scientific and technical investigations on building decay with reference to particular case studies and experimental works detailed papers which are of much wider significance for historic buildings study in general

Global Heritage Stone

2020-11-18

la formazione degli operatori in questo ambito professionale esige un curriculum formativo specifico e tirocini appropriati perché la degenerazione delle strutture allo stato di rudere si presenta con forme patologiche che hanno il più delle volte soglie di tollerabilità molto ridotte soprattutto in condizioni di emergenza quando si è obbligati a eseguire analisi diagnostiche tempestive e predisporre i più opportuni interventi nella consapevolezza che agli eventuali errori sarà molto difficile porre rimedio fondamentale risulta l individuazione e la determinazione dei rischi immediati e quelli che sono destinati a presentarsi con forme ancor più pericolose in tempi successivi sempre più frequentemente si creano le condizioni per interventi che esigono decisioni quasi improvvise e cambi di programmi in tempi ristretti la conoscenza dei meccanismi degenerativi la capacità di riconoscerli sul terreno e la valutazione preventiva dei rischi possono allora diventare determinanti

A Conservation Manual for the Field Archaeologist

1994-12-31

based on original contributions by specialists this manual covers both the theory and the practice required in the management of museums it is intended for all museum and art gallery profession staff and includes

sections on new technology marketing volunteers and museum libraries

Actas del Primer Congreso Nacional de Historia de la Construcción

1996

this refereed volume contains the proceedings of a conference conservation science in edinburgh in may 2002 organised by the institute of conservation science cost action g8 non destructive analysis and testing of museum objects and the national museums of scotland the book is divided into three sections the first preventive conservation includes contributions on the deterioration of historic textiles the movement of painted wooden panels dimensional changes in bark paintings showcase environments particles and dust in museums etc this is followed by the section on conservation methods which includes laser cleaning chromatography adhesives for textiles mortars for mosaics and corrosion inhibitors for iron artefacts in the final section non destructive testing the reader is taken into a world of acronyms xrf sem la icpms pixe thm gcms atr cpsem edx while some more easily written techniques including dendrochronology colorimetry eddy current testing accelerated light testing neutron radiography etc are discussed these techniques are applied to a range of materials from rembrandt to roman coins from aero engines to alkyd resins from hats to hallmarks manuscripts to mercury

Conservation of Architectural Heritage

2022-03-01

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A Future for the Past

1996

clearly laid out and fully illustrated this is the only comprehensive book on the subject at an introductory level perfect as a practical reference book for professional and students who work with excavated materials and as an introduction for those training as archaeological conservators

Il restauro archeologico

2016-12-21

this book gathers the peer reviewed papers presented at the 4th international conference on protection of historical constructions proHITECH held in Athens Greece on October 25-27 2021. The conference topics encompass structural and earthquake engineering intervention strategies materials and technologies digital documentation architecture and urban planning cultural heritage all of which represented by a showcase of case studies covering different construction materials as well as sustainability energy efficiency and adaptation to climate changes. As such the book represents an invaluable up-to-the-minute tool providing an essential overview of protection of historical constructions and offers an important platform to researchers engineers and architects.

Manual of Curatorship

2015-07-17

this book contains the proceedings of a five-day symposium in September 1991 sponsored by the U.S. Information Agency, organized by USICOMOS and designed in consultation with the Getty Conservation Institute that focused on conservation issues in Asia and the Pacific with particular attention to policies and conditions specific to the region. Two keynote papers by international experts explore legal aspects of cultural heritage protection and management of cultural sites. Three background papers cover the legislation of the 15 nations represented, regional professional training opportunities and tropical environmental conditions that challenge managers of sites and collections. The discussion summary includes suggestions for enhancing conservation awareness legislative action and policy implementation.

La cerámica arquitectónica

2007

In this study, Rae Ostman examines and contrasts Etruscan and Roman ceramic evidence from two distinct periods in Volterra to identify changes in social complexity. The first period, which covers the 3rd to 1st centuries BC, represents Volterra at its height, while the second, 2nd to 6th centuries AD, witnessed the city's first significant period of

decline the bulk of the study comprises a catalogue followed by analyses of techniques of pottery production including clay and soil types and a consideration of imported vessels a final discussion draws conclusions about volterra s relationships with other urban centres and the countryside during the two periods and considers how economic changes reflected changes in social complexity

Conservation Science 2002

2003

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El mal de la piedra

1995

chemical principles of textile conservation provides must have knowledge for conservators who do not always have a scientific background this vital book brings together from many sources the material science necessary to understand the properties deterioration and investigation of textile artefacts it also aids understanding of the chemical processes during various treatments such as cleaning humidification drying disinfestation disinfection and the use of adhesives and consolidants in conservation of historical textiles textile conservators will now have ready access to the necessary knowledge to understand the chemistry of the objects they are asked to treat and to make informed decisions about how to preserve textiles the combination of a chemist and a conservator provides the perfect authorial team it ensures a unique dual function of the text which provides textile conservators with vital chemical knowledge and gives scientists an understanding of textile conservation necessary to direct their research the many practical examples and case studies illustrate the utility of the relatively large chemical introduction and the essential chemical information which is included the case studies many illustrated in colour range from the treatment of the ghandis clothes high altitude flying suits and a mary quant raincoat to the hungarian coronation mantle

□□□□□

2005-06

Elements of Archaeological Conservation

2003-07-13

Protection of Historical Constructions

2021-12-03

Lo stucco

2001

Cultural Heritage in Asia and the Pacific

1993-08-19

The Foundation Grants Index

1991

The City and Complexity

2004

□□□

2017-10-06

Moro

1992

Association for Preservation Technology International Communique

1993

Chemical Principles of Textile Conservation

2012-09-10

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