

RILEM REPORT



Soiling and Cleaning of Building Façades

EDITED BY
L.G.W. Verhoef



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Soiling And Cleaning Of Building Facades

Mick R. Smith



Soiling And Cleaning Of Building Facades:

The Soiling and Cleaning of Building Facades L.G.W. Verhoef, 2004-06-02 The report of a comprehensive investigation by RILEM which examines all aspects of the cleaning of facades subject to soiling by both biological and non biological agencies The contributors are international authorities working in this field giving essential advice to all those who need to know how to approach the problems connected with the soiling and cleaning of building facades **Historic**

Building Façades New York Landmarks Conservancy, 1997-04-24 Comprehensive in depth coverage from leading experts in the field A historic building is a fragile resource that requires the finest care Maintenance and rehabilitation of walls and facades call for a thorough understanding of the forces that cause deterioration knowledge of the properties of building materials up to date inspection tools and methods and a solid command of renovation and repair techniques In this complete reference manual recognized experts provide state of the art information and methodologies for the inspection maintenance and restoration of historic buildings of virtually every period style and material Each chapter opens with a general discussion of the facade material and the ways in which structural and decorative elements are vulnerable to an array of environmental forces After a detailed investigation of tools and techniques for inspection the text explores planning issues for the restoration or replacement of facade components Special features include Separate chapters on each major type of building material stone masonry brick masonry terra cotta masonry cast stone mortar concrete cast iron sheet metal and wood An entire chapter on caulks and sealants 35 original line drawings and 43 black and white photos that help visualize technical information Selected success stories from preservation projects across the United States For architects building contractors and owners of historic buildings Historic Building Facades clarifies procedures helps identify sources of deterioration and offers solutions to even the most difficult maintenance and rehabilitation problems It is also an excellent reference for building preservationists architectural historians and students of building design and preservation **Soiling and Cleaning of**

Building Facades International Union of Testing and Research Laboratories for Materials and Structures, International Union of Testing and Research Laboratories for Materials and Structures. Technical Committee 62 SCF., 1988 **Cleaning Historic Buildings: v. 1** Nicola Ashurst, 2016-01-08 What happens to the fabric of a historic building if it is not cleaned What is soiling how does it affect the building What cleaning methods should be used This first of a comprehensive two volume guide addresses these important and controversial questions along with many others and offers practical guidance on appropriate cleaning techniques backed up with useful case study material Based on the author's extensive on site involvement at trial and contract stage in many cleaning and surface repair projects this book examines the various attitudes and current cleaning practices along with the role and need for analysis of substrates and soiling It also offers advice on dealing with special cleaning problems such as the removal of paint graffiti and metallic stains and provides an assessment of the cleaning methods currently available *Planning and design handbook on precast building structures* FIB -

International Federation for Structural Concrete,1994-05-01 **Stone** Mick R. Smith,1999 *Prevention of Premature Staining in New Buildings* Phil Parnham,2002-11-01 The appearance of ugly staining early in a buildings life ruins an otherwise pleasing appearance tarnishes the image of the owners and gives rise to costly refurbishment works In this book Phil Parnham raises a number of questions that should be considered whenever a new building is being designed or built These are why has staining become so prominent what causes premature staining which parts of new buildings are likely to be affected how can it be avoided By using a number of highly illustrated case studies the author answers these questions and ends by suggesting measures that should be taken by all design and construction professionals to prevent premature staining *Cleaning Historic Buildings: Substrates, soiling and investigations* Nicola Ashurst,1994 The first of a two volume set this book addresses questions concerning the cleaning of historic buildings what happens to the fabric of a historic building if it is not cleaned what is soiling and how does it affect the building what cleaning materials should be used

Maintainability Of Facilities: For Building Professionals Chew Yit Lin Michael,2010-01-08 This book focuses on spearheading the integration of maintainability starting right from the design stage To enable such integration improving the knowledge of maintainability and setting maintainability benchmarks are two key issues These objectives are fulfilled with the development of a comprehensive defect library a material manual and a maintainability scoring system These tools serve to define acceptable standards in design and construction practices thus enhancing long term maintainability of facilities Maintainability of Facilities For Building Professionals aims to improve the standard and quality of design construction and maintenance practices to produce efficient facilities that require minimum maintenance The text covers technical issues related to maintainability of major components of a facility and discusses the implications and selection of materials for high maintainability The target readers are practitioners and students in architecture engineering building real estate construction project management facilities management quantity and building surveying **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 *Aspects Of Stone Weathering, Decay And Conservation: Proceedings Of The 1997 Stone Weathering And Atmospheric Pollution Network Conference (Swapnet '97)* Melanie S Jones,Rachel D Wakefield,1999-03-04 This book brings together papers by scientists conservators and building surveyors active in stone decay and conservation research within the UK It addresses issues of stone weathering mechanisms and rates the effects of urban pollution cleaning methods and the role of the conservator within research The concepts regarding the value of stone heritage are also discussed as an important aspect towards retaining our diverse building heritage Stone Conservation: Principles and Practice Alison Henry,2015-12-08 Winner of the RIBA Book Award this important and timely publication brings together

contributions from leading stone conservation practitioners It discusses the philosophical principles on which stone conservation is founded and the need to understand the full history and development of a building before starting work Other topics covered in this book include consolidation cleaning and the replacement of stone conservation of different stone types including limestone sandstone and marble problems of dealing with polychrome stone and finally issues relating to church monuments and graveyards taking account of the need for good maintenance and health and safety requirements The book is illustrated with the authors own examples of stone conservation in practice Architects surveyors and craftsmen involved in the conservation of stone structures will find this both a practical and useful reference work

Expert Knowledge-based Inspection Systems Jorge de Brito, Clara Pereira, José D. Silvestre, Inês Flores-Colen, 2020-05-19 This book provides a novel approach to building pathology in current buildings Drawing on the available literature hands on experience and fieldwork inspections it presents a systematic perspective on the pathology of the building envelope The book addresses natural stone claddings adhesive ceramic tiling renders painted surfaces External Thermal Insulation Composite Systems ETICS architectural concrete surfaces windows and doors framing and claddings for pitched and flat roofs In addition to highlighting selected materials and construction elements the book proposes a global classification system for defects and their probable causes together with in situ diagnosis methods and repair techniques It also identifies the relationships between defects and causes diagnosis methods and repair techniques and the interdependence between different defects presenting these relations in the form of correlation matrices Support files with detailed information and an inspection form are also provided Selected case studies are presented to illustrate the value of a guidance system in fieldwork Given its scope the book offers a valuable guide particularly for researchers building inspectors civil engineers architects and maintenance planners

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

Getting Rid of Graffiti Maurice J. Whitford, 2017-09-25 This book provides for the first time clear authoritative guidance on removing graffiti and protecting surfaces from further attack

The Effects of Air Pollution on Cultural Heritage John Watt, Johan Tidblad, Vladimir Kucera, Ron Hamilton, 2009-06-10 This book reviews the sources of the air pollutants responsible for building damage and the mechanisms involved Studies investigating the relationships between pollution concentration dose and the resulting damage response are described and the latest research findings for dose response functions are presented Trends in pollutant emissions ambient concentrations and building damage over time are described and future predictions are presented Methodologies for assessing the extent of the potential problem in a region

the stock at risk are presented Procedures for estimating the economic implications are described and the consequences are discussed in detail because economic factors are important for reaching policy and management decisions at local national and international scales Damage to cultural heritage buildings is an important additional effect which needs to be considered as the standards are revised and the factors which will need to be brought into the assessment are presented

Air Pollution and Cultural Heritage C. Saiz-Jimenez, 2004-08-15 This collection includes thirty six important recent works on the effects of pollutants on heritage sites including thirty papers delivered to the Seville International Workshop on Air Pollution and Cultural Heritage in 2003 and six invited new additions All papers have been written by a team of leading international contributors and are divided into five subject areas to cover the main topics of interest today This volume is aimed at archaeologists and molecular biologists as well as advanced students and researchers in the fields of biodeterioration building materials micro organisms and cultural heritage

Dressed Stone Theodor Hugues, Ludwig Steiger, Johann Weber, 2012-12-10 Handling this traditional but still captivating building material has its quirks today perhaps more than ever On the one hand it can no longer be taken for granted that stonemasonry skills will be readily available while there are also new requirements and applications not to mention damaging environmental influences that create uncertainty for planners and implementers This book is designed to provide assistance From cornice to curtain walling all details in words and sectional drawings Are you looking for a particular stone The most important domestic types of stone with supplier details Various surface treatments and their visual effect Documentation of 15 selected example applications

Reducing the Effects of Climate Change Using Building-Integrated and Building-Applied Photovoltaics in the Power Supply Ali Sayigh, 2024-01-11 This book looks at the success and continuing potential of photovoltaic PV technology in combating climate change by harnessing solar energy through building integrated BIPV and building applied photovoltaics BAPV With PV global capacity soaring from 940 GW in 2021 to 1100 GW in 2022 and projected to reach 1456 GW by the end of 2023 the world is witnessing an unprecedented shift towards renewable energy solutions Today no single country exists without some form of PV installation driven by reduced costs and abundant free sunshine The book's chapters delve into the advancements in PV technology exploring its integration as an essential building material by examining 14 countries and regions Brazil The Netherlands Austria Poland Argentina Iran Germany Malaysia Oman Bahrain India Australia the United Kingdom and Egypt and providing a comprehensive overview of their successful adoption of PV for electricity generation Whether you're an architect builder engineer or climate advocate this vital resource offers insights international case studies and a path to a greener future

Handbook of Coatings for Concrete R. Bassi, S. K. Roy, 2002 In the field of construction the maintenance and repair of concrete structures has become a core activity and the protection of concrete is thus of primary concern Coatings for concrete should protect against corrosion of the reinforcement and against surface attack This book addresses the whole subject in a practical way looking at the chemistry applications and use of the major categories of coatings

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