

Microclimate For Cultural Heritage Second Edition

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Microclimate for Cultural Heritage, Second Edition, is a useful treatise on microphysics and a practical handbook for conservators and specialists in physics, chemistry, architecture, engineering, geology, and biology who work in the multidisciplinary field of the environment, and, in particular, in the conservation of works of art. Part I, devoted to applied theory, is a concise treatise on microphysics, which includes a survey on the basic ideas of environmental diagnosis and conservation.

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Microclimate for Cultural Heritage - 2nd Edition

Microclimate for Cultural Heritage: Conservation and Restoration of Indoor and Outdoor Monuments, Second Edition, is a cutting-edge, theoretical, and practical handbook concerning microclimate, environmental factors, and conservation of cultural heritage. Although the focus is on cultural heritage objects, most of the theory and instrumental methodologies are common to other fields of application, such as atmospheric and environmental sciences.

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Microclimate for Cultural Heritage, Conservation, Restoration, and Maintenance of Indoor and Outdoor Monuments Elsevier, New York Second Updated and Expanded Edition (27 November 2013)

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Microclimate for Cultural Heritage: Conservation ...

Protests broke out across Italy on Monday over anti-virus measures. Clashes were reported in several cities, including Milan, where tear gas was used to disperse the crowds. The demonstrations ...

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The scientific and technological advances that influence the protection of cultural heritage are developing at an ever-increasing pace. Systems to explore, research and analyse their materiality, to control the different scopes, or to represent and model them have reached an unprecedented dimension in recent decades. The Network of Science and Technology for the Conservation of Cultural Heritage aims to promote collaboration between the agents of these systems, in order to facilitate the sharing of experiences and to foster technology transfer, with the common goal of contributing to the conservation of Cultural Heritage. In the context of the TechnoHeritage Network, the fourth edition of the International Congress on Science and Technology for the Conservation of Cultural Heritage was held March 26-30, 2019, in Seville, Spain. This Congress was an international meeting of researchers and specialists from multiple areas, whose line of work is the knowledge and conservation of Cultural Heritage. Among all the topics discussed, the role and impact of digital technologies for the knowledge, maintenance, management and dissemination of cultural heritage should be highlighted. Digital media modify the way of understanding this heritage, of perceiving it and transmitting it, and offer a new horizon of strategies to make decision-making more sustainable over time.

Long-Term Performance and Durability of Masonry Structures: Degradation Mechanisms, Health Monitoring and Service Life Design focuses on the long-term performance of masonry and historical structures. The book covers a wide range of related topics, including degradation mechanisms in different masonry types, structural health monitoring techniques, and long-term performance and service life design approaches. Each chapter reflects recent findings and the state-of-the-art, providing practical guidelines. Key topics covered include the theoretical background, transport properties, testing and modeling, protective measures and standards and codes. The book's focus is on individual construction materials, the composite system and structural performance. Covers all issues related to durability, including degradation mechanisms, testing and design, monitoring and service life design Focuses on different masonry construction types Presents a 'one-stop' reference for advanced postgraduate courses that focuses on the durability of masonry and historical constructions

The Museum Environment, Second Edition deals with the behavior and conservation of the various classes of museum exhibit. This book is divided into six sections that provide museum specifications for conservation. This text highlights the three contributing factors in the deterioration and decay of museum exhibits, namely light, humidity, and air pollution. Each section describes the mechanism of deterioration and the appropriate "preventive conservation". The changes in this edition from the previous include the electronic hygrometry, fluorescent lamps, buffered cases, air conditioning systems, and data logging and control in historic buildings. This book is of great value to conservation researchers and museum workers.

Offering readers essential insights into the relationship between ancient buildings, their original and current indoor microclimates, this book details how the (generally) virtuous relationship between buildings and their typical microclimate changed due to the introduction of new heating, ventilation, and air conditioning (HVAC) systems in historic buildings. The new approach to the study of their Historic Indoor Microclimate (HIM) put forward in this book is an essential component to monitoring and evaluating building and artefact conservation. Highlighting the advantages of adopting an indoor microclimatic approach to the preservation of existing historic materials by studying the original conditions of the buildings, the book proposes a new methodology linking the preservation/restoration of the historic indoor microclimate with diachronic analysis for the optimal preservation of historic buildings. Further, it discusses a number of frequently overlooked topics, such as the simple and well-coordinated opening and closing of windows (an example extracted from a real case study). In turn, the authors elaborate the concept of an Historic Indoor Microclimate (HIM) based on "Original Indoor Microclimate" (OIM), which proves useful in identifying the optimal conditions for preserving the materials that make up historic buildings. The book's main goal is to draw attention to the advantages of an indoor microclimatic approach to the preservation of existing historic materials/manufacture, by studying the original conditions of the buildings. The introduction of new systems in historic buildings not only has a direct traumatic effect on the actual building and its components, but also radically changes one of its vital immaterial elements: the Indoor Microclimate. Architects, restorers and engineers will find that the book addresses the monitoring of the indoor microclimate in selected historic buildings that have managed to retain their original state due to the absence of new HVAC systems, and reflects on the advantages of a renewed attention to these aspects.

Forest management is a complex process that now incorporates information obtained from many sources. It is increasingly obvious that the physiological status of the trees in a forest has a dramatic impact on the likely success of any particular management strategy. Indeed, models described in this book that deal with forest productivity and sustainability require physiological information. This information can only be obtained from an understanding of the basic biological mechanisms and processes that contribute to individual tree growth. This valuable book illustrates that physiological ecology is a fundamental element of proficient forest management. Provides essential information relevant to the continuing debate over sustainable forest management Outlines how modern tools for physiological ecology can be used in planning and managing forest ecosystems Reviews the most commonly used forest models and assesses their value and future

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