

Microclimate For Cultural Heritage Second Edition Conservation Restoration And Maintenance Of Indoor And Outdoor Monuments

This book seeks to enhance the cultural dimension of sustainable development and particularly focuses on minor historic centers and their natural and rural landscapes. In a society becoming ever more globalized, without territorial restrictions in the production of goods and able to reproduce in China the goods and product characteristic of South American crafts (to mention just two extremes), the only element that can still be contextualized is heritage identity: the result of close integration between cultural assets, intangible assets and settled communities. Thus, heritage identity is one of the few elements, together with natural resources, which has the potential for economic development that is still firmly rooted in places and local populations. These towns are often the centerpiece of urban landscapes and geographical areas with original features, not always but often as individual places within networks of minor historical centers linked by shared history, traditions and/or natural elements (rivers, forests, river systems or other natural elements). They are outside the major tourist networks, even if now there is a budding interest in the touristic exploitation of these environments. So, they are the right places to pursue a sustainable and local development with a cultural

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perspective. This book is a product of the VIVA_EASTPART project (Valorisation and Improving of management of Small Historic Centres in the eastern PARTnership region), under the EU-funded “ENPI Eastern Partnership” program. It complements the more practically-focused work that is in production from this group, more focused on empirical approaches to the development of minor historic centers of the nations involved. Though the book has been influenced by this research and working experience, the authors are solely responsible for the content and opinions presented. This book constitutes the joint refereed proceedings of the 18th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems, NEW2AN 2018, the 11th Conference on Internet of Things and Smart Spaces, ruSMART 2018. The 64 revised full papers presented were carefully reviewed and selected from 186 submissions. The papers of NEW2AN focus on advanced wireless networking and applications; lower-layer communication enablers; novel and innovative approaches to performance and efficiency analysis of ad-hoc and machine-type systems; employed game-theoretical formulations, Markov chain models, and advanced queuing theory; grapheme and other emerging material, photonics and optics; generation and processing of signals; and business aspects. The ruSMART papers deal with fully-customized applications and services.

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book Cave Temples of Mogao: Art and History on the Silk Road. --Book Jacket. Produced by The University of South Carolina's School of Library and Information Science, this volume of the Annual Review of Cultural Heritage Informatics (ARCHI) is the polestar publication for cultural heritage scholars, professionals, and students. Featuring original works selected by the distinguished editorial board of international scholars, ARCHI presents a broad spectrum of the cultural heritage informatics field. New to this edition is a Perspectives chapter in which scholars, practitioners, and leaders delve into a current issue facing the field, voicing their thoughts based on research and personal experience. Some topics covered include: How the transactions and reflections of collections work influences the workplace, community, and nation An in-depth look at the work and how theoretical and professional obstacles hinder convergence. The debate over technology and big data addressed through two articles offering opposing viewpoints on the benefits and disadvantages With a focus on the way our cultural heritage is accessed, stored, and preserved, this volume looks forward to the future and the insight brought forth through technological innovation and research.

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,

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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.

?This book covers a very broad range of topics in marketing, communication, and tourism, focusing especially on new perspectives and technologies that promise to influence the future direction of marketing research and practice in a digital and innovational era. Among the areas covered are product and brand management, strategic marketing, B2B marketing and sales management, international marketing, business communication and advertising, digital and social marketing, tourism and hospitality marketing and management, destination branding and cultural management, and event marketing. The book comprises the proceedings of the International Conference on Strategic Innovative Marketing and Tourism (ICSIMAT) 2019, where researchers, academics, and government and industry practitioners from around the world came together to discuss best practices, the latest research, new paradigms, and advances in theory. It will be of interest to a wide audience, including members of the academic community, MSc and PhD students, and marketing and tourism professionals.

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Indoor and Outdoor Monuments Elsevier

Conservation of Easel Paintings, Second Edition provides a much-anticipated update to the previous edition, which has come to be known internationally as an invaluable and comprehensive text on the history, philosophy and methods of the treatment of easel paintings. Including 49 chapters written by more than 90 respected authors from around the world, this volume offers the necessary background knowledge in technical art history, artists' materials and scientific methods of examination and documentation. Later sections of the book provide information about the varying approaches and methods for treatment and issues of preventive conservation, as well as valuable reflections on storage, shipping, and exhibition. Including exciting developments that have taken place since the last edition was published, the book also covers new techniques of examination, especially MacroXRF scanning and Reflectance Transmission Imagery. Drawing on research presented at recent professional conferences, information about innovative methods for cleaning modern and contemporary paintings and insights into modern oil paints is also included. Incorporating the latest regulations and understanding of health and safety practices and integrating theory with practice throughout, Conservation of Easel Paintings, Second Edition will continue to be an indispensable reference for practicing conservators. It will also be an essential

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resource for students taking conservation courses around the world.

The quality of life of millions of people living in cities could be improved if the form of the city were to evolve in a manner appropriate to its climatic context.

Climatically responsive urban design is vital to any notion of sustainability: it enables individual buildings to make use of renewable energy sources for passive heating and cooling, it enhances pedestrian comfort and activity in outdoor spaces, and it may even encourage city dwellers to moderate their dependence on private vehicles. Urban Microclimate bridges the gap between climatology research and applied urban design. It provides architects and urban design professionals with an understanding of how the structure of the built environment at all scales affects microclimatic conditions in the space between buildings, and analyzes the interaction between microclimate and each of the elements of the urban landscape. In the first two sections of the book, the extensive body of work on this subject by climatologists and geographers is presented in the language of architecture and planning professionals. The third section follows each step in the design process, and in part four a critical analysis of selected case study projects provides a demonstration of the complexity of applied urban design. Practitioners will find in this book a useful guide to consult, as they address these key environmental issues in their own work.

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Re-envisioning Remote Sensing Applications: Perspectives from Developing Countries aims at discussing varied applications of remote sensing, with respect to upcoming technologies with diverse themes. Organized into four sections of overlapping areas of research, the book covers chapters with themes related to agriculture, soil and land degradation studies; hydrology, microclimates and climate change impacts; land use/land cover analysis applications; resource analysis and bibliometric studies, culminating with future research agenda. All the topics are supported via case studies and spatial data analysis. Features:

- Provides the applications of remote sensing in all fields through varied case studies and spatial data analysis
- Includes soil and land degradation, microclimates, and climate change impacts
- Covers remote sensing applications in broad areas of agriculture, hydrology, land use/land cover change and resource analysis
- Discusses usage of GPS-enabled smartphones and digital gadgets used for mapping and spatial analysis
- Explores future research agenda for applications of remote sensing in post-COVID scenario

This book is of interest to researchers and graduate students in environmental sciences, remote sensing, GIS, agricultural scientists and managers, forestry scientists and managers, and water resources scientists and managers.

Hailed on first publication as a masterful review of the topic, *The Science of Air:*

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Concepts and Applications quickly became a standard resource in the field. Clearly written and user-friendly, the second edition continues to provide the scientific underpinnings of the essence of air. Major expansions include: Air math and physics Air flow parameters Indoor air quality Regulatory updates related to indoor and outdoor air quality Updated air pollution control technologies The text follows a pattern that is nontraditional, using a paradigm based on real-world experience. It covers air resource utilization and air protection, contains regulatory updates related to air quality, and provides an update on pollution control technologies. In addition to the discussion of numerous mitigation and remediation procedures, this authoritative resource includes an expanded section on the fundamentals of air chemistry and physics, making it an indispensable text for those tasked with compliance to air pollution laws. The common thread woven through the fabric of this text is air resource utilization and its protection.

Numerous examples exist on how understanding the science of air can assist in understanding global climate change, air pollution, radon, indoor air quality, and acid rain. To solve these problems and understand the issues related to air, air pollution control practitioners need a broad base of scientific information from which to draw — The Science of Air fills this critical need.

The Second International Congress on Science and Technology for the

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Conservation of Cultural Heritage was held in Seville, Spain, June 24-27, 2014, under the umbrella of the TechnoHeritage network. TechnoHeritage is an initiative funded by the Spanish Ministry of Economy and Competitivity dedicated to the creation of a network which integrates CSIC

Microclimate for Cultural Heritage: Measurement, Risk Assessment, Conservation, Restoration, and Maintenance of Indoor and Outdoor Monuments, Third Edition, presents the latest on microclimates, environmental issues and the conservation of cultural heritage. It is a useful treatise on microphysics, acting as a practical handbook for conservators and specialists in physics, chemistry, architecture, engineering, geology and biology who focus on environmental issues and the conservation of works of art. It fills a gap between the application of atmospheric sciences, like the thermodynamic processes of clouds and dynamics of planetary boundary layer, and their application to a monument surface or a room within a museum. Sections covers applied theory, environmental issues and conservation, practical utilization, along with suggestions, examples, common issues and errors. Incorporates research on the effects of climate change from Climate for Culture, the EU funded, five-year project focusing on climate change's impact on cultural heritage preservation

Covers green lighting technology, like LED and OLED, it's impacts on indoor

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microclimates, preservation and color rendering Includes a case study on sea level issues and cultural heritage in Venice

This open access book offers a comprehensive overview of the role and potential of microorganisms in the degradation and preservation of cultural materials (e.g. stone, metals, graphic documents, textiles, paintings, glass, etc.).

Microorganisms are a major cause of deterioration in cultural artefacts, both in the case of outdoor monuments and archaeological finds. This book covers the microorganisms involved in biodeterioration and control methods used to reduce their impact on cultural artefacts. Additionally, the reader will learn more about how microorganisms can be used for the preservation and protection of cultural artefacts through bio-based and eco-friendly materials. New avenues for developing methods and materials for the conservation of cultural artefacts are discussed, together with concrete advances in terms of sustainability, effectiveness and toxicity, making the book essential reading for anyone interested in microbiology and the preservation of cultural heritage. .

This two-volume set CCIS 961 and 962 constitutes the refereed post-conference proceedings of the First International Conference on Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage, TMM_CH 2018, held in Athens, Greece, in October 2018. 73 revised full papers of 237 submissions are

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included in these volumes. The papers of the first volume are organized in the following topical sections: the project of the rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through transdisciplinary and cooperation in the protection of monuments; digital heritage; novel educational approach for the preservation of monuments; resilience to climate change and natural hazards; conserving sustainably the materiality of structures and architectural authenticity; and interdisciplinary preservation and management of cultural heritage. And the papers of the second volume are organized in the following topical sections: sustainable preservation and management lessons learnt on emblematic monuments; cross-discipline earthquake protection and structural assessment of monuments; cultural heritage and pilgrimage tourism; reuse, circular economy and social participation as a leverage for the sustainable preservation and management of historic cities; inception – inclusive cultural heritage in Europe through 3D semantic modelling; heritage at risk; and advanced and non-destructive techniques for diagnosis, design and monitoring.

This modern climatology textbook explains those climates formed near the ground in terms of the cycling of energy and mass through systems.

This second volume in the Technologies of Architecture series – the only series of books tuned to the architectural technology syllabus – explores the environmental influences on building design. Looking particularly at sustainable building, a holistic

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view is taken, so that the influence of any one set of choices on other areas – such as the trade-off of daylighting against thermal insulation, or the balance needed between heating and ventilation – are not overlooked. The authors discuss available technologies for establishing a suitable microclimate within buildings, for managing the transmission of sound and for minimizing the exploitation of scarce energy and of other resources. Using the perspective of a designer who needs a sound scientific basis for arriving at the optimum outcome, this valuably informative volume is ideal for architectural technology students, as well as first and second year architecture students.

This text provides a broad view of the research performed in building physics at the start of the 21st century. The focus of this conference was on combined heat and mass flow in building components, performance-based design of building enclosures, energy use in buildings, sustainable construction, users' comfort and health, and the urban micro-climate.

With an emphasis on passive sampling, this volume focuses on the environmental monitoring for common gaseous pollutants. It offers an overview of the history and nature of pollutants of concern to museums and the challenges facing scientists, conservators, and managers seeking to develop target pollutant guidelines to protect cultural property.

Microclimate for Cultural Heritage: Conservation and Restoration of Indoor and Outdoor

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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. 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. The second part of the book focuses on practical utilization, and shows in detail how field surveys should be performed, with many suggestions and examples, as well as some common errors to avoid. Presents updated scientific and technological findings based on the novel European standards on microclimate and cultural heritage Includes the latest information on experimental research on environmental factors and their impact on materials, such as the behavior of water and its interactions with cultural heritage materials Contains case studies of outdoor and indoor microclimate conditions and their effects, providing ideas for readers facing similar problems caused by heat, water, radiation, pollution, or air motions Covers instruments and methods for practical applications to help readers understand, to observe and interpret observations, and

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avoid errors

This open access book brings together research findings and experiences from science, policy and practice to highlight and debate the importance of nature-based solutions to climate change adaptation in urban areas. Emphasis is given to the potential of nature-based approaches to create multiple-benefits for society. The expert contributions present recommendations for creating synergies between ongoing policy processes, scientific programmes and practical implementation of climate change and nature conservation measures in global urban areas. Except where otherwise noted, this book is licensed under a Creative Commons Attribution 4.0 International License.

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This title investigate what is known and what is not known about suitable environmental conditions for cultural heritage collections.

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

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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 Thoroughly revised and up-dated edition of a highly successful textbook.

Deterioration of the cultural heritage as a result of pollution and other similar factor is a serious problem in a number of European countries. This publication contains articles on this issue by experts, researchers and those involved in the policy-making side of cultural management. In particular, it highlights the need for long-term research and the importance of raising public awareness of our cultural heritage and its protection. [From CoE website]

In this book in your hands, the relationship between the textile and leather sectors, and the environment is examined from many viewpoints. The book contains many different subjects, from sustainability in the textile and leather sectors to the effect of historical textiles on human health. It will be interesting for readers from many disciplines in science. I thank all the authors contributing to

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the book and I hope that it will be helpful to the readers.

The preservation of world cultural heritage is a key issue for maintaining national identity and understanding the influences or exchanges among civilizations throughout history. Development of appropriate preservation techniques that do not compromise longevity or authenticity are therefore of utmost importance.

Radiation techniques have demonstrated significant success in the disinfestation and preservation of cultural heritage artefacts, and national and international research programmes have developed harmonized methodologies for such radiation treatment. This publication provides state of the art knowledge on radiation technology applied to the conservation and consolidation of items of cultural heritage and will be of use to collection curators, conservators, restorers, registrars, art historians, archaeologists and conservation scientists active in the various fields of cultural heritage in museums, libraries, archives, archaeological institutions, historical buildings and conservation workshops.

The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or

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industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

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

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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.

Urban microclimates cannot be explained solely on the basis of scientific phenomena, but are also affected materially and spatially by the city's local architecture. The layout, design, and facade construction of buildings have a major impact on wind and temperature conditions. For this reason, architecture and urban design that have an effect on microclimates must be investigated in their social and cultural contexts. The publication uses international case studies to explain these relationships. The focus is on manifestations of urban microclimates in an architectural and urban design context. The places investigated are located in France, Italy, the USA, New Zealand, the Philippines, Taiwan, and Burkina Faso.

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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

First published in 1996, this volume has been substantially updated to reflect new research in the conservation of stone monuments, sculpture, and archaeological sites.

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

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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

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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.

This book constitutes the refereed proceedings of the 4th International Conference on Progress in Cultural Heritage Preservation, EuroMed 2012, held in Lemesos, Cyprus, in October/November 2012. The 95 revised full papers were carefully reviewed and selected from 392 submissions. The papers are organized in topical sections on digital data acquisition technologies and data processing in cultural heritage, 2D and 3D data capture methodologies and data processing in cultural heritage, 2D and 3D GIS in cultural heritage, virtual reality in archaeology and historical research, standards, metadata, ontologies and semantic processing in cultural heritage, data management, archiving and presentation of cultural heritage content, ICT assistance in monitoring and restoration, innovative topics related to the current and future implementation, use, development and exploitation of the EU CH identity card, innovative technologies to assess, monitor and adapt to climate change, digital data acquisition technologies and data processing in cultural heritage, 2D and 3D data capture methodologies and data

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processing in cultural heritage, on-site and remotely sensed data collection, reproduction techniques and rapid prototyping in cultural heritage, 2D and 3D GIS in cultural heritage, innovative graphics applications and techniques, libraries and archives in cultural heritage, tools for education, documentation and training in CH, standards, metadata, ontologies and semantic processing in cultural heritage, damage assessment, diagnoses and monitoring for the preventive conservation and maintenance of CH, information management systems in CH, European research networks in the field of CH, non-destructive diagnosis technologies for the safe conversation and traceability of cultural assets.

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