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Engineering : Building Physics, HVAC

Pretelli, Marco, Fabbri, Kristian (Eds.)

Historic Indoor Microclimate of the Heritage Buildings

A Guideline for Professionals who care for Heritage Buildings

- Offers readers essential insights into the relationship between ancient buildings, their original and current microclimates, and the introduction of new heating, ventilation, and air conditioning (HVAC) systems in such structures
- Highlights the advantages of adopting a microclimatic approach to the preservation of existing historic materials, by studying the original conditions of the buildings
- Proposes a new methodology linking the preservation/restoration of the historic microclimate with attention to historic plants (not only HVAC plants) and new standards for the optimal preservation of historic buildings

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).

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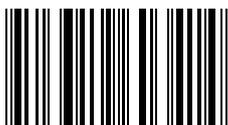
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