

1. Record Nr.	UNINA9910299913303321
Titolo	Historic Indoor Microclimate of the Heritage Buildings : A Guideline for Professionals who care for Heritage Buildings // edited by Marco Pretelli, Kristian Fabbri
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-60343-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XI, 273 p. 90 illus., 30 illus. in color.)
Disciplina	690
Soggetti	Building construction Buildings Building repair Buildings—Repair and reconstruction Building Physics, HVAC Building Types and Functions Building Repair and Maintenance
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Architecture and Indoor Microclimate -- Indoor Microclimate -- Historic Indoor Microclimate -- The Study of Historic Indoor Microclimate -- The Investigation -- Buildings Indoor Microclimate Quality (IMQ): Assessment and Certification -- Design Criteria and Strategies -- Malatestiana Library in Cesena, Italy -- Villa La Petraia (Firenze) UNESCO World Heritage -- The Santuario della Visitazione del Valinotto, Turin, Italy -- Vleeshuis Museum- Antwerp (Belgium).
Sommario/riassunto	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. .

---