

1. Record Nr.	UNINA9910337606903321
Autore	Barreira Eva
Titolo	Infrared Thermography for Building Moisture Inspection / / by Eva Barreira, Ricardo M.S.F. Almeida
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-75386-X
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (71 pages)
Collana	SpringerBriefs in Applied Sciences and Technology, , 2191-5318
Disciplina	693.893
Soggetti	Buildings - Repair and reconstruction Buildings - Maintenance Building materials Thermodynamics Heat engineering Heat transfer Mass transfer Measurement Measuring instruments Building Repair and Maintenance Building Materials Engineering Thermodynamics, Heat and Mass Transfer Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Buildings and infrared thermography -- Case study 1 – Measurement of surface temperature using different devices -- Case study 2 – IRT versus moisture: laboratory tests on full-scale model.- Case study 3 – IRT versus moisture: in situ tests on indoor environment -- Case study 4 – IRT versus drying: in situ tests on outdoor environment -- Conclusions and recommendations.
Sommario/riassunto	This book presents the state-of-the-art in infrared thermography (IRT) applications with a focus on moisture assessment in buildings. It also offers practical discussions of several case studies, including

comparisons of IRT with other surface temperature measurement techniques. In closing, it demonstrates how IRT can be used to assess capillary absorption, and addresses moisture in walls due to wind-driven rain infiltrations, and the drying process. The book equips readers with a deeper understanding of the ideal conditions for accurate IRT assessment and offers practical recommendations.
