

1. Record Nr.	UNINA9910795154803321
Autore	Jackh M.A Theresa
Titolo	Urban Dynamics and Transcultural Communication in Medieval Sicily / Theresa Jackh M.A., Mona Kirsch, Richard Engl, Julia Becker, Vera von Falkenhausen, Theresa Jackh M.A., Thomas Dittelbach, Alex Metcalfe, Mohammed Querfelli, Hadrien Penet, Fabrizio Titone, Kristjan Toomaspoeg, Elisa Vermiglio, Theresa Jackh, Mona Kirsch, Mihran Dabag, Nikolas Jaspert, Achim Lichtenberger
Pubbl/distr/stampa	Paderborn, : Brill Schoningh, 2017
ISBN	3-657-78629-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource
Collana	Mittelmeerstudien ; 17
Disciplina	900
Soggetti	Sizilien Netzwerke Mittelmeer Mittelalter Stadtgeschichte Handel christlich-islamischer Kulturkontakt Verflechtungsgeschichte Transkulturalitat Minderheiten
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	At the heart of the Mediterranean, the island of Sicily has long been a place of encounter. Witness to conquests and cycles of migration, the island's enviable position as a unique nexus of exchange has left it heir to a rich linguistic, religious, ethnic and cultural inheritance. As the island's primary conduits of interaction, Sicily's vibrant cities not only functioned as important hubs for the exchange of goods and knowledge, but also facilitated the transcultural contact of peoples and cultures. This volume offers multi-disciplinary approaches in

endeavouring to investigate how such manifold influences shaped the cities of the island and were reflected in the urban dynamics and transcultural communication of medieval Sicily.

2. Record Nr.	UNINA9910797791203321
Autore	McCartney John Scott <1979-, >
Titolo	Thermoactive foundations for sustainable buildings // John Scott McCartney, Moncef Krarti, Byung Chang Kwag, Abdelmalek Bouazza, Rao Martand Singh, Mohammed Faizal
Pubbl/distr/stampa	New York, [New York] (222 East 46th Street, New York, NY 10017) : , : Momentum Press, , 2015
ISBN	1-60650-886-5
Descrizione fisica	1 online resource (x, 121 pages) : illustrations
Collana	Technologies for sustainable life
Disciplina	697.7
Soggetti	Geothermal space heating Foundations Thermopiles Buildings - Thermal properties Sustainable buildings Libros electronicos.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Co-published with American Society of Mechanical Engineers.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Structural performance of thermo-active foundations -- 1.1 Introduction -- 1.2 Thermo-elastic soil-structure interaction -- 1.3 Design criteria -- 1.4 Thermo-mechanical load transfer analysis -- 1.4.1 Assumptions and basic aspects of the model -- 1.4.2 Load-transfer curves -- 1.4.3 Mechanical load transfer analysis -- 1.4.4 Thermo-mechanical T-z analyses -- 1.4.5 Model evaluation: impact of temperature changes -- 1.4.6 Model evaluation: impact of boundary conditions -- 1.4.7 Model evaluation: head restraint effects -- 1.4.8 Results from thermo-active foundations -- 1.5 Final comments -- 1.6 Acknowledgments -- 1.7 References -- 2. Thermal analysis of thermoactive foundations -- 2.1 Introduction -- 2.2 Thermal modeling of TAFs -- 2.2.1 Description of TAF thermal

modeling -- 2.2.2 Experimental validation -- 2.2.3 Sensitivity analysis -- 2.2.4 Impact of thermal piles on soil temperature distribution -- 2.3 Building foundation heat transfer -- 2.4 Thermal response of TAFs -- 2.5 Energy analysis of buildings with TAF systems -- 2.5.1 Application of TAFs for office buildings -- 2.5.2 Application of TAFs to residential buildings -- 2.6 Summary and conclusions -- 2.7 References -- 3. Full scale geothermal energy pile studies at Monash University, Melbourne, Australia -- 3.1 Introduction -- 3.2 Site ground conditions -- 3.3 Instrumentation of full-scale geothermal energy piles -- 3.3.1 Single geothermal energy pile instrumentation -- 3.3.2 Instrumentation of group of geothermal energy piles -- 3.4 Heating test for single pile case -- 3.5 Mechanical tests -- 3.6 Dual pile system -- 3.6.1 Concrete curing temperature -- 3.6.2 Strains during concrete curing -- 3.7 Conclusions -- 3.8 Acknowledgments -- 3.9 References -- About the authors.

Sommario/riassunto

This monograph documents the current of state-of-art in Thermo-Active Foundations (TAFs) suitable for efficiently and sustainably heat and cooling buildings. TAFs, also referred to as thermal or energy piles, offer innovative and sustainable alternatives to ground-source heat pumps as well as other conventional heating, ventilating, and air conditioning (HVAC) systems to heat and cool commercial as well as residential buildings in several regions in the world. In summary, this monograph collects the latest multi-disciplinary advances in modeling, designing, and monitoring TAFs. Ultimately, it is hoped that this monograph will provide a comprehensive reference for both researchers and professionals interested in structural and thermal performance of TAFs and their applications in developing integrated and sustainable equipment and systems for the built environment.
