



Advances in solar heating and cooling [

Wang, Ruzhu,

ed

Ge, Tianshu,

ed

Woodhead Publishing is an imprint of Elsevier,
2016

Monografía

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTgyODYwMjE>

Título: Advances in solar heating and cooling Recurso electrónico] edited by R.Z. Wang and T.S. Ge

Editorial: Duxford, UK Woodhead Publishing is an imprint of Elsevier 2016

Mención de serie: Science Direct e-books Woodhead Publishing series in energy number 102

Nota general: Incluye índices Descripción basada en el recurso electrónico; tít. tomado del PDF (ScienceDirect, visitado en Junio 9, 2016)

Contenido: Front Cover; Advances in Solar Heating and Cooling; Related titles; Advances in Solar Heating and Cooling; Copyright; Contents; List of contributors; Woodhead Publishing Series in Energy; One -- Introduction; 1 -- Introduction to solar heating and cooling systems; 1.1 Background; 1.2 Overview of solar heating and cooling systems; 1.2.1 Solar energy; 1.2.1.1 Nontracking solar collectors; 1.2.1.2 Tracking solar collectors; 1.2.1.3 Solar photovoltaics; 1.2.2 Solar heating technologies; 1.2.2.1 Passive solar space-heating; 1.2.2.2 Passive solar water-heating 1.2.2.3 Active solar space- and water-heating1.2.2.4 Other feasible systems; 1.2.3 Solar cooling technologies; 1.2.3.1 Solar photovoltaic-driven refrigeration and dehumidification; 1.2.3.2 Solar thermal-driven refrigeration; 1.2.3.3 Solar thermal-driven dehumidification; 1.2.4 Heat storage technologies; 1.2.4.1 Sensible heat storage; 1.2.4.2 Latent heat storage; 1.2.4.3 Sorption heat storage; 1.2.4.4 Thermochemical heat storage; 1.3 Technology roadmap; References; 2 -- Resource assessment and site selection for solar heating and cooling systems; 2.1 Introduction 2.2 Definition of solar resources2.3 Relationship between solar resources and solar collectors; 2.4 Measuring and modeling the solar resource; 2.4.1 Solar resource measurement techniques; 2.4.2 Solar resource estimates using satellite data retrievals; 2.4.3 Other solar resource estimation techniques; 2.5 Solar resource data sets important to siting and sizing solar heating and cooling (SHC) technologies; 2.5.1 Resource variability-spatial; 2.5.2 Resource variability-temporal; 2.5.3 Typical meteorological year data sets; 2.5.4 P50/P90 data sets 2.5.5 The influence of data uncertainty on P90 values2.5.6 Reducing uncertainty: site adaptation; 2.6 Sources of solar resource information; 2.7 Summary; References; 3 -- Energy efficiency and environmental impact of solar heating and cooling systems; 3.1 Introduction; 3.2 Energy use in the built environment; 3.3 Worldwide market penetration of solar heating and cooling systems; 3.4 Overview of technologies used for solar heating and

cooling systems and their efficiency; 3.5 Environmental impact of solar heating and cooling systems; 3.6 Conclusions; References; Two -- Solar heating systems 4 -- Nontracking solar collection technologies for solar heating and cooling systems4.1 Introduction; 4.2 Flat plate collectors; 4.3 Flat plate collectors with diffuse reflectors; 4.4 Compound parabolic collectors; 4.5 Reverse flat plate collectors; 4.6 Evacuated tube collectors; 4.7 Conclusions; Glossary; References; 5 -- Tracking solar collection technologies for solar heating and cooling systems; 5.1 Definition of solar tracking technology; 5.2 Classification and features; 5.2.1 Manual tracking; 5.2.2 Automatic tracking; 5.3 Control system; 5.3.1 Principle of manual tracking control

Detalles del sistema: Forma de acceso: World Wide Web

ISBN: 9780081003022 0081003021 9780081003015 print)

Autores: Wang, Ruzhu, ed Ge, Tianshu, ed

Punto acceso adicional serie-Título: Woodhead Publishing in energy no. 102

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es