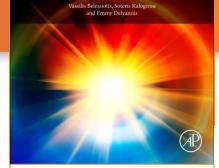
THERMAL SOLAR DESALINATION Methods and Systems



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AUDIENCE

Energy engineers, renewable engineers, solar thermal energy industry professionals and researchers

SHELVING CLASSIFICATIONS SCIENCE / Energy

Thermal Solar Desalination: Methods and Systems

Vassilis Belessiotis Soteris Kalogirou Emmy Delyannis



This comprehensive book outlines the fundamental principles of how to obtain fresh water from seawater using solar thermal desalination technologies and applications

KEY FEATURES

- Includes detailed descriptions and design of all types of solar thermal desalination systems
- Lists a comprehensive record of seawater and fresh water thermophysical properties required in the design of desalination systems
- Contains equations to calculate and analyze the performance of the processes examined and assesses their practicality and application

DESCRIPTION

Thermal Solar Desalination: Methods and Systems presents numerous thermal seawater desalination technologies varying from the very simple, easy to construct and operate solar stills, to the more advance membrane and indirect distillation methods. All types of solar thermal desalination technologies are presented in detail to enable readers to comprehend the subject, from design details to enabling further research to be carried out in this area.

The various units used in desalination are outlined, along with diagrams of all detailed working principles of desalination methods and systems. The authors consider the economic aspects of these processes, demonstrating successful implementation of desalination units suitable for areas where supplies of fresh water in natural ways is limited or non-existent.

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RELATED TITLES

- Escobar and Schäfer, *Sustainable Water for the Future: Water Recycling Versus Desalination*, 2009, 9780444531155, 444pp., \$205.00
- Kalogirou, Solar Energy Engineering: Processes and Systems, 2nd ed, 2013, 9780123972705, 840pp., \$120.00
- McEvoy, Solar Cells: Materials, Manufacture and Operation, 2nd ed, 2012, 9780123869647, 600p., \$199.95





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