

# THERMAL SOLAR DESALINATION

## Methods and Systems

Vassilis Belessiotis, Soteris Kalogirou  
and Emmy Delyannis



**ISBN:** 978-0-12-809656-7

**PUB DATE:** July 2016

**LIST PRICE:** \$120.00

**FORMAT:** Hardback

**PAGES:** c. 368

**TRIM:** 253 x 191mm

### AUDIENCE

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

### SHELVING CLASSIFICATIONS

SCIENCE / Energy

## Thermal Solar Desalination: *Methods and Systems*

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**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.

### ABOUT THE AUTHORS

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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*, 2<sup>nd</sup> ed, 2013, 9780123972705, 840pp., \$120.00
- McEvoy, *Solar Cells: Materials, Manufacture and Operation*, 2<sup>nd</sup> ed, 2012, 9780123869647, 600p., \$199.95

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## TABLE OF CONTENTS

### CHAPTER 1

- 1.1 Introduction
- 1.2 What is Desalination? – Where does it Apply?
- 1.3 Operation Steps of a Desalination Plant
- 1.4 Water and Energy
- 1.5 Thermal Solar Desalination
- 1.6 New Trends in Desalination

### CHAPTER 2

- 2.1 Introduction
- 2.2 Water and Seawater Properties – Definitions
- 2.3. The Chemical Composition of Seawater
- 2.4 Properties of seawater
- 2.5 Suspended Particulate Material in Seawater
- 2.6 Quality of Drinking and Utilization Water
- 2.7. Corrosion and Scale Formation 2.8 Conclusion

### CHAPTER 3

- 3.1 Introduction
- 3.2 Solar stills
- 3.2 Solar stills
- 3.3 Operation principles of solar distillation - Solar stills

### CHAPTER 4

- 4.1 Introduction
- 4.2 Terminology
- 4.3 Membrane Distillation
- 4.4 Mass and Heat Transfer
- 4.5 Characteristics of MD Configurations
- 4.6 Heat Recovery
- 4.7 Solar Powered Membrane Distillation (SPMD)
- 4.8 Membrane's Characteristic Properties
- 4.9 Membrane Modules
- 4.10 Membrane Types

### CHAPTER 5

- 5.1 Introduction
- 5.2 Definitions
- 5.3 General operation principles
- 5.4 Mathematical models
- 5.5 Multiple-effect humidification-dehumidification (MEH)
- 5.6 Other concepts of the H/D method
- 5.7 Solar H/D systems with storage tanks
- 5.8 The economics of the H/D method
- 5.9 Coupling solar stills or H/D systems to greenhouses

### CHAPTER 6

- 6.1 Introduction
- 6.2 Short historical review
- 6.3 Definitions and Nomenclature
- 6.4 Factors which influence the selection of the desalination system
- 6.5 Factors influencing the selection of the solar systes
- 6.6 Conventional desalination systems-Distillation methods
- 6.7 Dual purpose plants
- 6.8 Solar desalination combinations

Appendix I

Appendix II

Appendix III