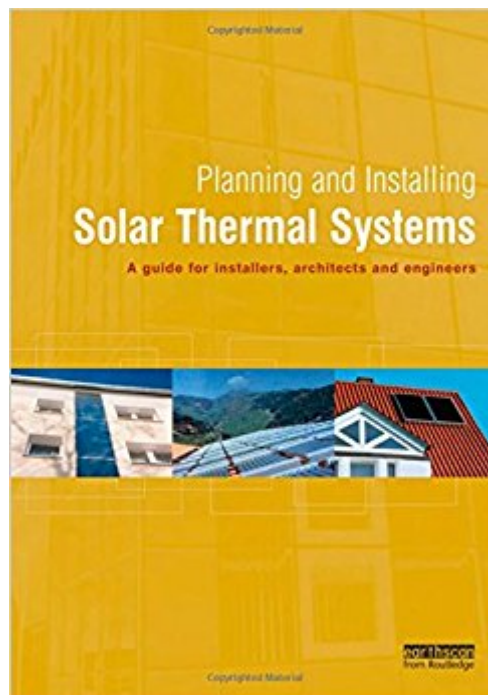




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Planning And Installing Solar Thermal Systems: A Guide For Installers, Architects And Engineers



Synopsis

Solar thermal systems available today offer efficiency and reliability. They can be applied in different conditions to meet space- and water-heating requirements in the residential, commercial and industrial building sectors. The potential for this technology and the associated environmental benefits are significant. This book offers clear guidance on planning and installing a solar thermal system, crucial to the successful uptake of this technology. All major topics for successful project implementation are included. Beginning with resource assessment and an outline of core components, this guide details solar thermal system design, installation, operation and maintenance for single households, large systems, swimming pool heaters, solar air and solar cooling applications. Details on how to market solar thermal technologies, a review of relevant simulation tools and data on selected regional, national and international renewable energy programmes are also provided. In short, the book offers comprehensive guidance for professionals who wish to install solar thermal technology and will be a cherished resource for architects and engineers alike who are working on new projects, electricians, roofers and other installers, craftsmen undertaking vocational training and anyone with a specialized and practical interest in this field. Published with DGS

Book Information

Series: Planning and Installing

Spiral-bound: 280 pages

Publisher: Routledge; 1 edition (November 1, 2004)

Language: English

ISBN-10: 1844071251

ISBN-13: 978-1844071258

Product Dimensions: 11.9 x 8.6 x 0.8 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars 6 customer reviews

Best Sellers Rank: #1,337,876 in Books (See Top 100 in Books) #118 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Solar](#) #382 in [Books > Business & Money > Processes & Infrastructure > Green Business](#) #414 in [Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Heating, Ventilation & Air Conditioning](#)

Customer Reviews

The guide was prepared in Germany by DGS, the German section of the International Solar Energy Society, with contributions from DLR, the German Aerospace Centre. Ecofys, an international consultancy specializing in sustainable energy and energy efficiency, was responsible for the translation and adaptation of this English edition.

as expected

Very good - great source of info for doing solar thermal..

This is a very good book for the right reader ... unfortunately you need to be familiar and able to use the SI system.[...]It goes from simple to complex and domestic to commercial scale with calculations and illustrations. However, the concepts of design and consumption are more suited to the frugal European rather than the average middle class American (no insult intended but American energy consumption is about twice that of a European). Smaller houses, smaller more efficient appliances etc.

I am an engineer and recently I had to look into designing big solar thermal systems. I agree with a previous reviewer that nothing from the US comes even close to the usefulness of the information included in this book. The book seems to be a compilation of different materials, mostly German. I also own the "Grosse Solaranlagen" (Big solar systems) book published by SolarPraxis in Germany:[...]Initially I thought that the information is redundant because the diagrams and pictures look the same in both books. Reading both I realized that this book reproduces only a part of the German book. Unfortunately it does not go into the specifics of actually sizing the system (flows, circulation pumps, pressures, solar stores). For me without that info, it is of limited use. The book is good as an introduction to different schemes and on how to approach the problem, but it cannot be used to actually size a system. I recommend the SolarPraxis German books if you can read them.

I bought this book immediately after it was published. It's a great reference book and very good introduction to solar heating systems. What I liked the most is how the book is set up. It gives you a brief overview of what solar energy is, how it works, and it explains the difference between solar panels, what efficiency and solar fraction of solar panels is. And not only that... it tells you about system components, how to design residential systems, large scale systems and way more. As a technical manager for a large thermal solar company I always recommend this book to my new team mates.

If you are a designer or installer of Solar Hot Water and Heating-Buy this book. I know its expensive, but it is worth it!Nothing I have seen from the US is even close.One small draw back is that you will have to convert from metric.

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