



Advances in Thermal Energy Storage Systems

Methods and Applications

Edited by Luisa F. Cabeza

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Preface

This book is the first wide compilation of thermal energy storage materials, technologies and applications. Thermal energy storage (TES) is a key technology in energy systems, since it helps in overcoming the mismatch between energy generation and energy use, mismatch in time, temperature, power or location. Although TES has attracted a lot of interest in the research and industrial world, there is currently no book compiling all the developments carried out in the last three decades of research and development. This book tries to give an overview of these developments to help interested engineers, architects, energy managers and researchers.

Readers are expected to be able to understand technical texts, but no specific prerequisite knowledge is expected. Nevertheless, some chapters may only be understandable by specific profile readers. Readers should use this book as a summary of the available literature. If deep knowledge in a given aspect of thermal energy storage is desired, readers are directed to further reading materials or may contact the editor of the book.

Of course, this book would not have been possible without the contribution of all the chapter authors. Special thanks to all of them for helping with this big challenge to produce such a complete summary of thermal energy storage.

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