



Advances in Thermal Energy Storage Systems: Methods and Applications (Woodhead Publishing Series in Energy)

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Thermal energy storage (TES) technologies store thermal energy (both heat and cold) for later use as required, rather than at the time of production. They are therefore important counterparts to various intermittent renewable energy generation methods and also provide a way of valorising waste process heat and reducing the energy demand of buildings. This book provides an authoritative overview of this key area. Part one reviews sensible heat storage technologies. Part two covers latent and thermochemical heat storage respectively. The final section addresses applications in heating and energy systems.

- Reviews sensible heat storage technologies, including the use of water, molten salts, concrete and boreholes
- Describes latent heat storage systems and thermochemical heat storage
- Includes information on the monitoring and control of thermal energy storage systems, and considers their applications in residential buildings, power plants and industry

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Advances in Thermal Energy Storage Systems: Methods and Applications (Woodhead Publishing Series in Energy) From Woodhead Publishing Bibliography

- Sales Rank: #3764513 in Books
- Published on: 2014-10-24
- Original language: English
- Dimensions: 9.00" h x 6.25" w x 1.50" l, 2.21 pounds
- Binding: Hardcover
- 612 pages



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Editorial Review

About the Author

Luisa F. Cabeza is Professor at the University of Lleida (Spain) where she leads the GREA research group. She has co-authored over 100 journal papers and several book chapters.

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