



# Thermal Energy Storage Technologies for Sustainability: Systems Design, Assessment and Applications

By S. Kalaiselvam, R. Parameshwaran

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*Thermal Energy Storage Technologies for Sustainability* is a broad-based overview describing the state-of-the-art in latent, sensible, and thermo-chemical energy storage systems and their applications across industries. Beginning with a discussion of the efficiency and conservation advantages of balancing energy demand with production, the book goes on to describe current state-of-the art technologies. Not stopping with description, the authors also discuss design, modeling, and simulation of representative systems, and end with several case studies of systems in use.

- Describes how thermal energy storage helps bridge the gap between energy demand and supply, particularly for intermittent power sources like solar, wind, and tidal systems
- Provides tables, illustrations, and comparative case studies that show applications of TES systems across industries
- Includes a chapter on the rapidly developing field of viable nanotechnology-based thermal energy storage systems

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#### **About the Author**

Dr. S. Kalaiselvam is the Head of the Department of Applied Science and Technology and Associate Professor of Mechanical Engineering at Anna University, Chennai.

Dr. R. Parameshwaran is a Research Fellow in the Department of Mechanical Engineering & Centre for Nanoscience and Technology at Anna University, Chennai.

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