

Handbook of Research on Advances and Applications in Refrigeration Systems and Technologies (2 Vols.)

Part of the Advances in Mechatronics and Mechanical Engineering (AMME) Book Series

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Description:

In recent years, the sustainability and safety of perishable foods has become a major consumer concern, and refrigeration systems play an important role in the processing, distribution, and storage of such foods. To improve the efficiency of food preservation technologies, it is necessary to explore new technological and scientific advances both in materials and processes.

The **Handbook of Research on Advances and Applications in Refrigeration Systems and Technologies** gathers state-of-the-art research related to thermal performance and energy-efficiency. This book covers a diverse array of subjects from the challenges of surface-area frost-formation on evaporators to the carbon footprint of refrigerant chemicals.

Readers:

This publication provides a broad insight into the optimization of cold-supply chains and serves as an essential reference text for undergraduate students, practicing engineers, researchers, educators, and policymakers.

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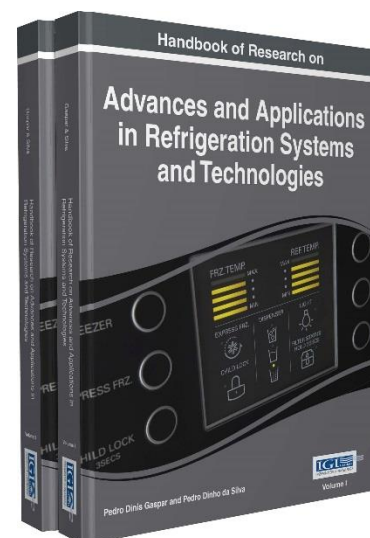
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Topics Covered:

- Cold-Supply Chains
- Commercial vs. Domestic Refrigeration
- Ejector Refrigeration
- Evaporator Design
- Exergetic Analysis
- Refrigeration Systems
- Renewable Energy and Food Storage
- Thermal Performance
- Transcritical Refrigeration Cycles



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