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Refrigeration Systems and Applications

Edited by
Ciro Aprea, Angelo Maiorino and Adrián Mota Babiloni
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Refrigeration Systems And Applications

F Rizvi

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extensively used in a variety of thermal engineering applications ranging from the cooling of electronic devices to food cooling processes. Its wide ranging implications and applications mean that this industry plays a key role in national and international economies and it continues to be an area of active research and development. Refrigeration Systems and Applications 2nd edition forms a useful reference source for graduate and postgraduate students and researchers in academia and as well as practicing engineers working in this important field who are interested in refrigeration systems and applications and the methods and analysis tools for their analysis design and performance improvement.

Refrigeration Systems and Applications Ibrahim Dincer, 2017-05-30 The definitive text reference for students researchers and practicing engineers. This book provides comprehensive coverage on refrigeration systems and applications ranging from the fundamental principles of thermodynamics to food cooling applications for a wide range of sectoral utilizations. Energy and exergy analyses as well as performance assessments through energy and exergy efficiencies and energetic and exergetic coefficients of performance are explored and numerous analysis techniques models correlations and procedures are introduced with examples and case studies. There are specific sections allocated to environmental impact assessment and sustainable development studies. Also featured are discussions of important recent developments in the field including those stemming from the author's pioneering research. Refrigeration is a uniquely positioned multi disciplinary field encompassing mechanical chemical industrial and food engineering as well as chemistry. Its wide ranging applications mean that the industry plays a key role in national and international economies. And it continues to be an area of active research much of it focusing on making the technology as environmentally friendly and sustainable as possible without compromising cost efficiency and effectiveness. This substantially updated and revised edition of the classic text reference now features two new chapters devoted to renewable energy based integrated refrigeration systems and environmental impact sustainability assessment. All examples and chapter end problems have been updated as have conversion factors and the thermophysical properties of an array of materials. Provides a solid foundation in the fundamental principles and the practical applications of refrigeration technologies. Examines fundamental aspects of thermodynamics refrigerants as well as energy and exergy analyses and energy and exergy based performance assessment criteria and approaches. Introduces environmental impact assessment methods and sustainability evaluation of refrigeration systems and applications. Covers basic and advanced and hence integrated refrigeration cycles and systems as well as a range of novel applications. Discusses crucial industrial technical and operational problems as well as new performance improvement techniques and tools for better design and analysis. Features clear explanations numerous chapter end problems and worked out examples. Refrigeration Systems and Applications Third Edition is an indispensable working resource for researchers and practitioners in the areas of Refrigeration and Air Conditioning. It is also an ideal textbook for graduate and senior undergraduate students in mechanical chemical biochemical industrial and food engineering disciplines.

Refrigeration Systems and Applications Ibrahim

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Dinis,da Silva, Pedro Dinho,2015-08-28 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 Covering a diverse array of subjects from the challenges of surface area frost formation on evaporators to the carbon footprint of refrigerant chemicals 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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