



# Refrigeration Systems and Applications

Ibrahim Dincer

E-Book

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## DESCRIPTION

Refrigeration is 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. Providing comprehensive coverage of refrigeration systems and applications, this is a valuable reference source for people in academia and industry who are interested in refrigeration systems and applications, and methods of analysing the heat transfer which occurs during these applications. In addition, it addresses real life technical and operational problems, enabling researchers and practitioners to gain an understanding of the fundamental principles and the practical applications of refrigeration technology. Recent developments in the field are included - many of which are taken from the author's own research activities in the area.

- \* Presents recent developments in the field such as exergy analysis, environmental impact, new models, correlations and charts
- \* Addresses real life technical and operational problems
- \* Provides coverage of heat transfer analysis techniques, with several illustrative examples and study problems
- \* Includes valuable food refrigeration data and comprehensive references

Essential reading for research scientists, mechanical engineers and practitioners working in industrial refrigeration and cooling and food technology.

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## ABOUT THE AUTHOR

**Ibrahim Dincer**, PhD, is a full professor of Mechanical Engineering in the Faculty of Engineering and Applied Science at UOIT and a leading authority in the area of sustainable energy systems, including refrigeration systems and applications. He is Vice President for Strategy in International Association for Hydrogen Energy and Vice-President for World Society of Sustainable Energy Technologies. Renowned for his pioneering works in the area of sustainable energy technologies, Professor Dincer has authored and co-authored numerous books and book chapters, more than a thousand refereed journal and conference papers, and many technical reports. He has chaired many national and international conferences, symposia, workshops and technical meetings and has delivered more than 300 keynote and invited lectures. Professor Dincer is an active member of various international scientific organizations and societies, and serves as editor-in-chief, associate editor, regional editor, and editorial board member on various prestigious international journals. He is a recipient of several research, teaching and service awards, including the Premier's research excellence award in Ontario, Canada, in 2004. Professor Dincer has made innovative contributions to the understanding and development of sustainable energy technologies and their implementation. He has actively been working in the areas of hydrogen and fuel cell technologies, and his group has developed various novel technologies and methods. He was recognized by Thomson Reuters as one of the World's Most Influential Scientific Minds in Engineering in 2014, 2015 and 2016.

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