DESCRIPTION

A timely and comprehensive introduction to CO2 heat pump theory and usage

- A comprehensive introduction of CO2 application in heat pump, authored by leading scientists in the field

- CO2 is a hot topic due to concerns over global warming and the 'greenhouse effect'. Its disposal and application has attracted considerable research and governmental interest

- Explores the basic theories, devices, systems and cycles and real application designs for varying applications, ensuring comprehensive coverage of a current topic

- CO2 heat transfer has everyday applications including water heaters, air-conditioning systems, residential and commercial heating systems, and cooling systems

ABOUT THE AUTHOR

XIN-RONG ZHANG, PHD, is Professor in the Department of Energy and Resources Engineering at Peking University in China. His contribution to this area includes not only the fundamentals, such as flow and heat transfer of supercritical CO2; but also applications, designs of commercial and industrial CO2 heat pumps, novel CO2 refrigeration cycle using solid-gas flow, and
solar powered CO₂ cogeneration system. He teaches a graduate course called “CO₂ Refrigeration and Heat Pumps” at Peking University.

HIROSHI YAMAGUCHI, PHD, is Professor in the Department of Mechanical Engineering at Doshisha University in Japan. He received his doctorate from the University of Manchester Institute of Science and Technology in the United Kingdom in 1982. His research focus is on fluid engineering, solar energy conversion, ultra-low temperature refrigeration, and magnetic fluids.

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