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PRODUCT INFORMATION

Air-Cooled Heat Exchangers and Cooling Towers: Thermal-Flow Performance Evaluation and Design, Vol. 2

By Detlev Kroger

OVERVIEW

This new text represents the most detailed and comprehensive book presenting modern practice and theory relevant to the thermal-flow performance evaluation, design, and optimization of air-cooled heat exchangers and cooling towers. Kroger provides modern analytical and empirical tools used to evaluate the thermal-flow performance and design of air-cooled heat exchangers and cooling towers. He also covers how to prepare improved specifications and evaluate more critical bids with respect to thermal performance of new cooling systems. Further, Kroger explores improvement possibilities with respect to retrofits of existing cooling units as well as possible impacts of plant operations and environmental influences.

KEY FEATURES AND BENEFITS

- Optimize plant efficiency through an understanding of key reasons for poor performance
- Get extensive up-to-date information on air-cooled heat exchangers and cooling towers
- Reduce misunderstanding between supplier and client through increased insight and intelligent specifications understanding

AUTHOR PROFILE

Detlev G. Kroger is author and co-author of more than 150 published technical articles. He has presented many invited lectures and short courses on his research and development work in the field of air-cooled heat exchangers and cooling towers. Currently, he is a full-time professor at the University of Stellenbosch in South Africa. He is founding director of the Institute for Thermodynamics and Mechanics at the University of Stellenbosch and has acted as a consultant to companies involved in the power, petrochemical, and process industries throughout the world. He received his BS and B.Eng. from the University of Stellenbosch and his MS and PhD in Mechanical Engineering from the Massachusetts Institute of Technology. He is a fellow of the ASME and a recipient of numerous awards including the Thomas Price and Campbell-Pitt awards from the SAIME, the Chemical Processing Award from the SAChE, the Dreosti Prize from SAIRAC, and the Havenga Prize from the SA Academy of Arts and Science. He received an honorary doctorate in Mechanical Engineering from the RAU.

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