



Industrial Refrigeration Handbook (Mechanical Engineering)

By Wilbert Stoecker

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Drawing from the best of the widely dispersed literature in the field and the author's vast professional knowledge and experience, here is today's most exhaustive, one-stop coverage of the fundamentals, design, installation, and operation of industrial refrigeration systems. Detailing the industry changes caused by the conversion from CFCs to non-ozone-depleting refrigerants and by the development of microprocessors and new secondary coolants, Industrial Refrigeration Handbook also examines multistage systems; compressors, evaporators, and condensers; piping, vessels, valves and refrigerant controls; liquid recirculation; refrigeration load calculations; refrigeration and freezing of food; and safety procedures. Offering a rare compilation of thermodynamic data on the most-used industrial refrigerants, the Handbook is a mother lode of vital information and guidance for every practitioner in the field.

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Editorial Review

From the Back Cover

State-of-the-art information and data for today's most efficient industrial refrigeration systems. Drawing from the best of the widely dispersed literature in the field and the author's vast professional knowledge and experience, here is today's most exhaustive coverage of the fundamentals, design, installation, and operation of industrial refrigeration systems. Industrial Refrigeration Handbook details the latest industry changes caused by the conversion from CFCs to non-ozone-depleting refrigerants and the development of microprocessors and new secondary coolants. Also examined in depth are: Multistate Systems--Commonly used in low-temperature systems. Compressors, Evaporators, and Condensers--Essential system components. Piping, Vessels, Valves and Refrigerant Controls--The 'glue' that connects the components. Liquid Recirculation--A popular method of distributing refrigerants to various locations throughout the plant. Refrigeration Load Calculations--Crucial to proper system design. Refrigeration and Freezing of Food--today's most significant application. Safety Procedures--Especially for systems using ammonia. Offering a rare compilation of thermodynamic data on the most-used industrial refrigerants, Industrial Refrigeration Handbook is a one-stop source of vital information and guidance for every practitioner in the field.

About the Author

Wilbert F. Stoecker is Professor Emeritus of Mechanical Engineering at the University of Illinois at Urbana-Champaign, and the author of McGraw-Hill's Refrigeration and Air Conditioning, now in its second edition. For 12 years, he has been a science adviser for the International Institute of Ammonia Refrigeration as well as a member of its research committee. Mr. Stoecker is also an associate director of the semiannual Industrial Refrigeration Workshop, a week-long course in which he also serves as a presenter.

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