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It is mandatory that refrigeration load calculations be performed during the design stage in order to properly size the components. Load calculations are useful on other occasions as well, such as to ...

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## Chapter 18: REFRIGERATION LOAD CALCULATIONS

This chapter is divided into three parts: (1) conservation of energy in refrigeration plants, (2) transfers of thermal energy from one location ... efficiently because of the inflexibility of the ...

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## Chapter 16: CONSERVATION, RECLAIM, AND STORAGE OF ENERGY

Offering a rare compilation of thermodynamic data on the most-used industrial refrigerants, this book presents exhaustive coverage of the fundamentals, design, installation, and operation of ...

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## Chapter 19: REFRIGERATED STRUCTURES

The three main types of condensers used in general refrigeration

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systems are: All of these serve the industrial refrigeration field as well. In comparison to the air-conditioning industry, however, a ...

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## Chapter 7: CONDENSERS

Vessels in industrial refrigeration systems serve either or both of the following functions: (1) storage of liquid, and/or (2) separation of liquid from vapor. The major categories of vessels are: ...

### Publisher Description

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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The vital concept of optimization has been largely neglected in thermal sciences. Keeping this in mind, *Essentials of Thermal System Design and Optimization* introduces the general principles involved in system design and optimization as applicable to thermal systems, followed by the methods to implement them. The book features several surprising examples and uses a conversational style to, for the first time, introduce contemporary techniques and concepts, such as genetic algorithms, simulated annealing, ANN, and Bayesian Inference in the context of thermal system optimization. An independent chapter is devoted to inverse problems in thermal systems. Examples and problems in every chapter clarify presented concepts and methods, and supplemental end-of-chapter problems enhance the learning process.

Thermal systems play an increasingly symbiotic role alongside mechanical systems in varied applications spanning materials processing, energy conversion, pollution, aerospace, and automobiles. Responding to the need for a flexible, yet systematic approach to designing thermal systems across such diverse fields, *Design and Optimization of Thermal*

Chapters 1-21 use contents from Stoecker, W. F. (Wilbert F.), 1925-. *Design of thermal systems*. Third edition. New York : McGraw-Hill, ©1989. Chapters 22-24 use contents from Holman, J. P. (Jack Philip). *Heat transfer*. Tenth edition. Boston [Mass.] : McGraw Hill Higher Education, ©2010.

*Air Conditioning System Design* summarizes essential theory and then explains how the latest air conditioning technology operates. Load calculations, energy efficiency, and selection of technology are all explained in the context of air conditioning as a system, helping the reader fully consider the implications of design decisions. Whether users need to figure out how to apply their mechanical engineering degree to an air conditioning design task or simply want to find out

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more about air conditioning technology for a research project, this book provides a perfect guide. Approaches air conditioning as a system, not just a collection of machines Covers the essential theory on fluid flow and the latest in A/C technology in a very readable and easy-to-use style Explains the significance of factors, such as climate and thermal comfort as A/C design considerations Addresses design using a range of air conditioning technologies, such as evaporative cooling, VRF systems, psychromatic software, and dessicant dehumidification

\* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook \* Provide essential, up-to-date HVAC data, codes, standards, and guidelines, all conveniently located in one volume \* A definitive reference source on the design, selection and operation of A/C and refrigeration systems

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