

Solution Refrigeration Air Conditioning Stoecker And Jones

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Solution: q = mc p (t 2 - t 1) m = 2.5 kg/s c p = 1.0 kJ/kg.K t 2 = 30 C t 1 = -10 C CHAPTER 2 - THERMAL PRINCIPLES Page 2 of 5 Then, q = (2.5)(1.0)(30 + 10) q = 100 kw - - - Ans. 2-3. One instrument for measuring the rate of airflow is a venturi, as shown in Fig. 2-15, where the cross-sectional area is reduced and the pressure difference between position A and B measured.

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CHAPTER 2 - THERMAL PRINCIPLES Page 4 of 5 Solution: Figure 2-6. Nu= 0.023Re^{0.8}Pr^{0.4} where: $\mu = \frac{VD}{k} \text{ Re } = \frac{\rho V D}{\mu} \text{ Pr } = \frac{c_p \mu}{k} \text{ Nu} = \frac{h D}{k} \text{ Then, } 2.0 \cdot 4 \cdot 2 \cdot p \cdot 0.8 \cdot 0.4 \cdot 1 \cdot p \cdot 0.8 \cdot 1 \cdot c \cdot 2 \cdot c \cdot 1 \cdot k \cdot VD \cdot c$

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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.

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Explains the functions and operations of refrigeration and air conditioning units through an analytical synthesis of the principles of thermodynamics, heat transfer and fluid mechanics

* 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

This comprehensive book is a valuable and readable reference text and source for anyone who wishes to learn about food cooling applications and methods of analysis of the heat transfer during these applications.

The text begins by reviewing, in a simple and precise manner, the physical principles of three pillars of Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several types of refrigeration systems and their associated components such as compressors, condensers, evaporators, and expansion devices. Refrigerants too, are studied elaboratively in an exclusive chapter. The second part of the book, beginning with the historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to 23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as revision of the material learned.

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.

Designed for students and professional engineers, the fifth edition of this classic text deals with fundamental science and design principles of air conditioning engineering systems. W P Jones is an acknowledged expert in the field, and he uses his experience as a lecturer to present the material in a logical and accessible manner, always introducing new techniques with the use of worked examples.

The Revised Edition Of A Widely Used Book Contains Several New Topics To Make The Coverage More Comprehensive And Contemporary. * Highlights The Ozone Hole Problem And Related Steps To Modify The Refrigeration Systems. * The Discussion Of Vapour Compression/Absorption Systems Totally Recast With A Special Emphasis On Eco-Refrigerants. * Application Oriented Approach Followed Throughout The Book And Energy Efficiencyemphasised. * Several Real Life Problems Included To Illustrate The Practical Viability Of The Systems Discussed. * Additional Examples, Diagrams And Problems Included In Each Chapter For An Easier Grasp Of The Subject.With All These Features, This Book Would Serve As A Comprehensive Text For Undergraduate Mechanical Engineering Students. Postgraduate Students And Practising Engineers Would Also Find It Very Useful.

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