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heating ventilating and air conditioning completely revised with the latest hvac design
practices based on the most recent standards from ashrae this sixth edition provides
complete and up to date coverage of all aspects of heating ventilation and air
conditioning you ll find the latest load calculation procedures indoor air quality
procedures and issues related to ozone depletion throughout the text numerous
worked examples clearly show you how to apply the concepts in realistic scenarios in
addition several computer programs several new to this edition help you understand
key concepts and allow you to simulate various scenarios such as psychometrics and
air quality load calculations piping system design duct system design and cooling coil
simulation additionally the load calculation program has been revised and updated

these computer programs are available at the book's website wiley.com/college/mcquiston. Key features of the sixth edition: additional new worked examples in the text and on the accompanying software; chapters 6-9 have been extensively revised for clarity and ease of use; chapter 8 the cooling load now includes two approaches: the heat balance method as recommended by ASHRAE and the simpler RTs method. Both approaches include computer applications to aid in calculations. Provides complete authoritative treatment of all aspects of HVAC based on current ASHRAE standards. Numerous worked examples and homework problems provide realistic scenarios to apply concepts.

An air conditioning system consists of components and equipment arranged in sequential order to control and maintain an indoor environment. The goal is to provide a healthy and comfortable climate with acceptable air quality while being energy efficient and cost effective. Air conditioning and refrigeration engineering covers all types of systems from institutional and commercial to residential. The book supplies the basics of design from selecting the optimum system and equipment to preparing the drawings and specifications. It discusses the four phases of preparing a project: gathering information, developing alternatives, evaluating alternatives, and selling the best solution. In addition, the author breaks down the responsibilities of the engineer: design documents, computer aided design, and government codes and standards. Air conditioning and refrigeration engineering provides you with an easy reference to all aspects of the topic. This resource addresses the most current areas of interest such as computer aided design and drafting, desiccant air conditioning, and energy conservation. It is a thorough and convenient guide to air conditioning and refrigeration engineering.

Market description: anyone seeking a primer on HVAC. Students of mechanical engineering. Special features: the revision of this text continues to offer comprehensive treatment of heating, ventilation, and air conditioning concepts. All material is based on the updated ASHRAE Handbook and Product Criteria and uses both SI and English units. Practical realistic problems are presented and the latest procedures and issues are covered. Suitable for advanced study in HVAC, mechanical engineering, architectural engineering, and mechanical engineering technology departments. About the book: based on the most recent standards from ASHRAE, the sixth edition provides complete and up-to-date coverage of all aspects of heating, ventilation, and air conditioning. You'll find the latest load calculation procedures, indoor air quality procedures, and issues related to ozone depletion. Also integrated throughout the text are numerous worked examples that clearly show you how to apply the concepts in realistic scenarios.

No detailed description available for airports.

This up-to-date reference covers the thermal design, operation, and maintenance of the three major components in industrial heating and air conditioning systems: including fossil fuel fired boilers, waste heat boilers, and air conditioning evaporators. Among the distinguishing features covered are the numerous types of components in use and the features and relative merits of each. Overviews of the major technical sections of the book with suggested approaches to design based on industrial experience, case studies, and examples of actual engineering problems, design methods and procedures based on current industrial practice in the United States, Russia, China, and Europe, with data charts, tables, and thermal hydraulic correlations for design included, and various approaches to design based on experience in the art of industrial process equipment design.

This book discusses conventional as well as unconventional wood drying technologies.

it covers fundamental thermophysical and energetic aspects and integrates two complex thermodynamic systems conventional kilns and heat pumps aimed at improving the energy performance of dryers and the final quality of dried lumber it discusses advanced components kiln energy requirements modeling and software and emphasizes dryer heat pump optimum coupling control and energy efficiency problems are included in most chapters as practical numerical examples for process and system components calculation and design the book presents promising advancements and r d challenges and future requirements

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heat exchangers are a crucial part of aerospace marine cryogenic and refrigeration technology these essays cover such topics as complicated flow arrangements complex extended surfaces two phase flow and irreversibility in heat exchangers and single phase heat transfer

climate change mitigation and sustainable practices are now at the top of political and technical agendas environmental system modelling provides a way of appraising options and this book will make a significant contribution to the uptake of such systems it provides knowledge of the principles involved in modelling systems builds confidence amongst designers and offers a broad perspective of the potential of these new technologies the aim of the book is to provide an understanding of the concepts and principles behind predictive modelling methods review progress in the development of the modelling software available and explore modelling in building design through international case studies based on real design problems

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