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(f) The HVAC systems meet the exhaust air energy recovery requirements of Section 6.5.6.1. (g) All HVAC equipment is controlled by a manual changeover or dual-setpoint thermostat.

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Educator's Resources - ASHRAE

APPLIED ENGINEERING SOLUTIONS Pedro J.

Camejo, PE Assistant Project Manager Atlanta, Georgia

. CLARK NEXSEN, INC. Wade Williams, PE Mechanical

Department Manager Macon, Georgia . HVAC Design

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Page 47:In the next-to-last line of Problem 10.1,

change “flor rate” to “flow rate.” For online access to

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efficient and provide comfortable and healthy environments. The text contains twelve chapters that review the fundamentals of refrigeration, heat transfer, and psychrometrics. Information from the ASHRAE Handbook "Fundamentals" is summarized and supplemented with items from industry sources. The remaining chapters assemble information from ASHRAE Handbooks, ASHRAE standards and manufacturer data present design procedures commonly used by professional engineers. Other topics include equipment selection and specification, comfort and IAQ, building assemblies, heating and cooling loads, air distribution system design, water distribution system design, electrical and control systems, design for energy efficiency, and design for economic value. A suite of complementary spreadsheet programs that incorporate design and computation procedures from the text are provided on the CD that accompanies this book. These programs include psychrometric analysis, equipment selection, heating and cooling load calculation, an electronic "ductulator," piping system design, a ductwork cost calculator, and programs to evaluate building system demand and energy efficiency. Future updates to these programs can be found at www.ashrae.org/updates. The downloadable version of this product comes as a zip file and includes a PDF of the User's Manual and all the supporting files located on the CD that accompanies the print version. You must have WinZip to open the download.

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PsychProcess.xls, or TideLoad.xls. These programs are updated periodically; the most current version can be obtained for free from the ASHRAE Web site at www.ashrae.org/publicationupdates. The solutions in this text correspond to the 2006 version of these programs.

This manual was developed to provide field service personnel with the necessary training and practical knowledge to safely perform service on systems containing R-410A and R-407C. In addition, this manual includes information on: R-22 phase out, appropriate refrigerant and oil applications, service techniques, as well as safe handling of R-410A. It contains all the information technicians will need to prepare for their R-410A safety certification.

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Heating Ventilation and Air Conditioning by J. W. Mitchell and J. E. Braun provides foundational knowledge for the behavior and analysis of HVAC systems and related devices. The emphasis of this text is on the application of engineering principles that features tight integration of physical descriptions with a software program that allows performance to be directly calculated, with results that provide insight into actual behavior. Furthermore, the text offers more examples, end-of-chapter problems, and design projects that represent situations an engineer might face in practice and are selected to illustrate the complex and integrated nature of an HVAC system or piece of equipment.

Sets the baseline for the science behind an emerging technology Authoritative guide to skills needed to implement ground source heat pump schemes Only book using SI units to adequately focus on the geological aspects of ground source heat.

This is an out of print item which has been scanned and made available electronically. The research in this project was derived from RP-556. The purpose of the research was to develop a set of algorithms and related computer programs in the area of HVAC acoustics that are useful and reliable. All algorithms were to be based on currently verifiable published and unpublished test results. The objectives of this project were to: (1) develop algorithms in English, along with discussions

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related to the development of the algorithms, references, and other appropriated data; (2) develop computer programs associated with each algorithm programmed in Basic; and (3) produce a final report in a form that could be readily published by ASHRAE. This book, published in 1991, was the final result of that research. However, it is now out of print as the sponsoring technical committee considered it to be out of date. ASHRAE has made this scanned copy available believing that it does contain sound algorithms to be used to predict acoustical performance of fans, ductwork, walls, ceilings, etc. Algorithms written in Basic with support documentation included. Added as a scanned document on October 15, 2000.

A Practical, On-the-Job HVAC Guide Applicable to residential, commercial, and industrial jobs, this essential handbook puts a wealth of real-world information at your fingertips. HVAC Troubleshooting Guide shows you how to read, interpret, and prepare schedules, mechanical plans, and electrical schematics. This handy resource will aid you in your everyday tasks and keep you up to date with the latest facts, figures, and devices. The book includes numerous illustrations, tables, and charts, troubleshooting tips, safety precautions, resource directories, and a glossary of terms. HVAC Troubleshooting Guide helps you:

- Identify and safely use tools and equipment (both new and old)
- Use heat pumps and hot air furnaces
- Calculate ventilation requirements
- Work with refrigeration equipment and the new refrigerants
- Utilize control devices, including solenoids and relays
- Operate, select, and repair electric motors
- Work with condensers, compressors, and evaporators
- Monitor the flow of

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refrigerant with valves, tubing, and filters Comply with the Section 608 refrigerant recycling rule Program thermostats Insulate with batts, sheet, tubing covers, and foam Work with solid-state controls Understand electrical and electronic symbols used in schematics

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