

HVAC Engineering Fundamentals: Part 1

1.1 Introduction

This chapter is devoted to “fundamentals”—contains principles which lay the foundation for what is to come. Starting with the original author’s suggested thought process for analyzing typical problems, the reader is then exposed to a lexicon of our time: current engineering. Next follows a discussion of codes and regulations, political criteria which constrain potential design solutions to the bounds of public health and welfare, and sometimes to special interest group sponsored legislation. The final sections of the chapter offer a brief review of the basic physics of heating, ventilating, and air conditioning (HVAC) design in discussions of fluid mechanics, thermodynamics, heat transfer, and psychrometrics. Numerous classroom and design office experiences remind us of the value of continuous awareness of the physics of HVAC processes in the conduct of design work.

1.2 Problem Solving

Every HVAC design involves, as a first step, a problem-solving process, usually with the objective of determining the most appropriate type of HVAC system for a specific application. It is helpful to think of the problem-solving process as a series of logical steps, each of which must be performed in order to obtain the best results. Although there are various ways of defining the process, the following sequence has been found useful:

1. Define the objective. What is the end result desired? For HVAC, the objective usually is to provide an HVAC system which will control

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Table of Contents Hvac Systems Design H 4th Edition

1. Understanding the eBook Hvac Systems Design H 4th Edition
 - The Rise of Digital Reading Hvac Systems Design H 4th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Hvac Systems Design H 4th Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hvac Systems Design H 4th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hvac Systems Design H 4th Edition
 - Personalized Recommendations
 - Hvac Systems Design H 4th Edition User Reviews and Ratings
 - Hvac Systems Design H 4th Edition and Bestseller Lists
5. Accessing Hvac Systems Design H 4th Edition Free and Paid eBooks
 - Hvac Systems Design H 4th Edition Public Domain eBooks
 - Hvac Systems Design H 4th Edition eBook Subscription Services
 - Hvac Systems Design H 4th Edition Budget-Friendly Options

6. Navigating Hvac Systems Design H 4th Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Hvac Systems Design H 4th Edition Compatibility with Devices
 - Hvac Systems Design H 4th Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hvac Systems Design H 4th Edition
 - Highlighting and Note-Taking Hvac Systems Design H 4th Edition
 - Interactive Elements Hvac Systems Design H 4th Edition
8. Staying Engaged with Hvac Systems Design H 4th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hvac Systems Design H 4th Edition
9. Balancing eBooks and Physical Books Hvac Systems Design H 4th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hvac Systems Design H 4th Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hvac Systems Design H 4th Edition
 - Setting Reading Goals Hvac Systems Design H 4th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hvac Systems Design H 4th Edition
 - Fact-Checking eBook Content of Hvac Systems Design H 4th Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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