



Heating, Ventilating and Air Conditioning Analysis and Design

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Perfect Condition. A+ Customer Service! Summary: Preface. About the Authors. Symbols. 1. Introduction. 1-1 Historical Notes.1-2 Common HVAC Units and Dimensions.1-3 Fundamental Physical Concepts.1-4 Additional Comments.References.Problems.2. Air-Conditioning Systems.2-1 The Complete System.2-2 System Selection and Arrangement.2-3 HVAC Components and Distribution Systems.2-4 Types of All-Air Systems.2-5 Air-and-Water Systems.2-6 All-Water Systems.2-7 Decentralized Cooling and Heating.2-8 Heat Pump Systems.2-9 Heat Recovery Systems.2-10 Thermal Energy Storage.References.Problems.3. Moist Air Properties and Conditioning Processes.3-1 Moist Air and the Standard Atmosphere.3-2 Fundamental Parameters.3-3 Adiabatic Saturation.3-4 Wet Bulb Temperature and the Psychrometric Chart.3-5 Classic Moist Air Processes.3-6 Space Air Conditioning-Design Conditions.3-7 Space Air Conditioning-Off-Design Conditions.References.Problems.4. Comfort and Health-Indoor Environmental Quality.4-1 Comfort-Physiological Considerations.4-2 Environmental Comfort Indices.4-3 Comfort Conditions.4-4 The Basic Concerns of IAQ.4-5 Common Contaminants.4-6 Methods to Control Humidity.4-7 Methods to Control Contaminants.References.Problems.5. Heat Transmission in Building Structures.5-1 Basic Heat-Transfer Modes.5-2 Tabulated Overall Heat-Transfer Coefficients.5-3

Moisture Transmission.References.Problems.6. Space Heating

Load 6-1 Outdoor Design Conditions 6-2 Indoor Design

Reviews

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