



The Building Environment: Active and Passive Control Systems

By Bradshaw, Vaughn

Wiley, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. Introduction. PART 1: THERMAL CONTROL CONCEPTS. Chapter 1: Human Comfort and Health Requirements. Human Physiology. Heat Balance. Metabolism. Clothing. Environmental Factors. Thermal Comfort Standards. Temperature and Humidity Extremes. Air Quality and Quantity. Chapter 2: Thermodynamic Principles. Heat Transfer. Psychrometrics. Chapter 3: Thermal Dynamics of Buildings. Heat Gain and Loss. Thermal Mass Dynamics. Moisture Problems. Chapter 4: Load Calculations. Heating and Cooling Loads. Selecting Design Temperature and Humidity Conditions. Solar Gain Through Fenestration. Heat Transmission Through the Building Envelope. Internal Loads. Outside Air. Annual Energy Use Calculations. PART 2: THERMAL CONTROL SYSTEMS. Chapter 5: A Building's Impact on the Environment. Ozone Depletion. Global Warming. Energy Conservation. Green Design/Sustainable Design. Case Study. Chapter 6: Active HVAC Systems. Central Heat Sources. Central Cooling Sources. Distribution Media. Delivery Devices. Localized Exhaust Systems. Heat Recovery. Thermal Storage. Automatic Controls. Noise and Vibration. District Heating and Cooling. Chapter 7: Passive Methods. Load Reductions. Passive Solar Heating. Passive Cooling. Case Study. PART 3: ELECTRICAL SYSTEMS. Chapter 8: Lighting. Principles of Illumination. Electrical Lighting. Daylighting. Emergency Lighting. Outdoor Lighting. Chapter 9: Normal Electrical Service. Loads. Service Entrance. Interior Distribution. Battery Power...

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