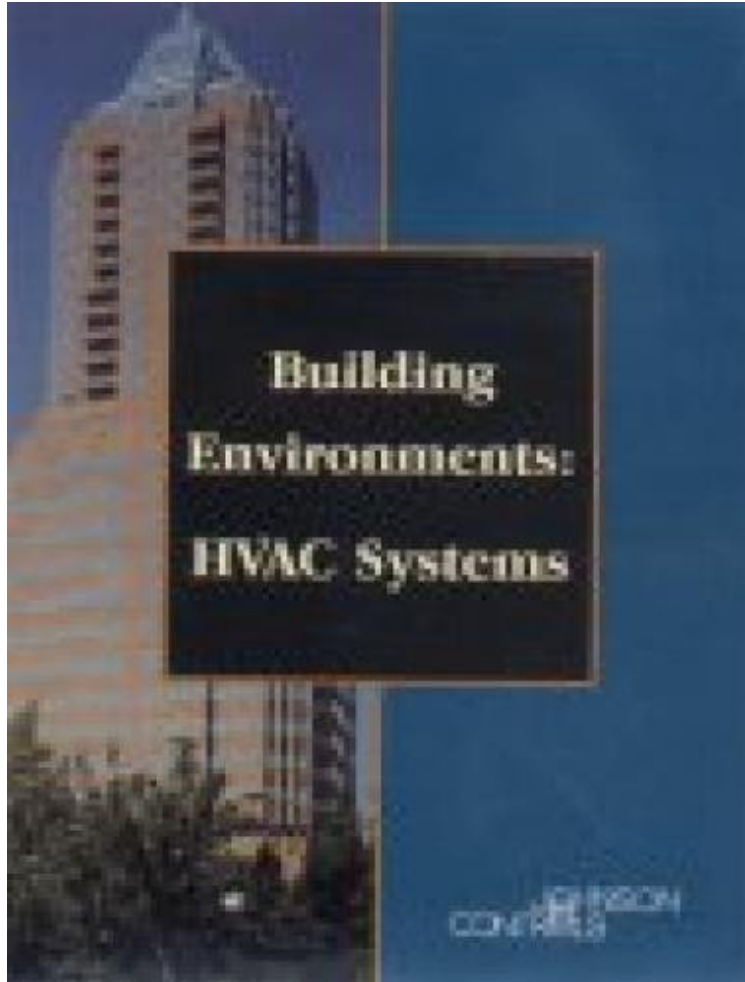


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## Building Environments: HVAC Systems

*Alan J. Zajac*

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Creating healthy, productive indoor environments can be the greatest challenge facing those involved with the buildings. Whether you engineer, install, service, or operate heating, ventilating and air conditioning systems, Building Environments: HVAC Systems is for you. This comprehensive, easy-to-read text builds your understanding of HVAC systems and the controls that manage them. Through illustrations and realistic examples, Building Environments: HVAC Systems clearly and concisely explains how mechanical and control systems work together to create quality building environments. You'll learn the technical details behind these complex systems without being overwhelmed. Its

unique style makes this fully illustrated text the best single reference if you are entering the HVAC industry or want to expand your knowledge of HVAC and control systems.

Preface. About the Cover. Acknowledgments. CH 1: The Role of HVAC Systems in Facilities Management. CH 2: Heat, Temperature and Pressure Basics. CH 3: Managing Human Comfort. CH 4: Determining the Loads on the HVAC System. CH 5: Psychrometrics: The Properties of Air. CH 6: Plotting HVAC Processes on the Psychrometric Chart. CH 7: HVAC System Types. CH 8: Introduction to Boilers. CH 9: Heat Exchange and Heat Recovery Equipment. CH 10: Introduction to the Refrigeration Cycle and Equipment. CH 11: Evaporative Cooling and Cooling Towers. CH 12: Centrifugal Pumps and Hydronic Systems. CH 13: Air Cleaning Equipment. CH 14: Air Moving Equipment: Fans and Ducts. CH 15: Humidifiers. CH 16: Control Systems for Occupant Comfort. CH 17: Control Strategies for Occupant Comfort. CH 18: Advanced Technology for Effective Facility Control. List of figures and tables. Glossary. Index. About the Author.