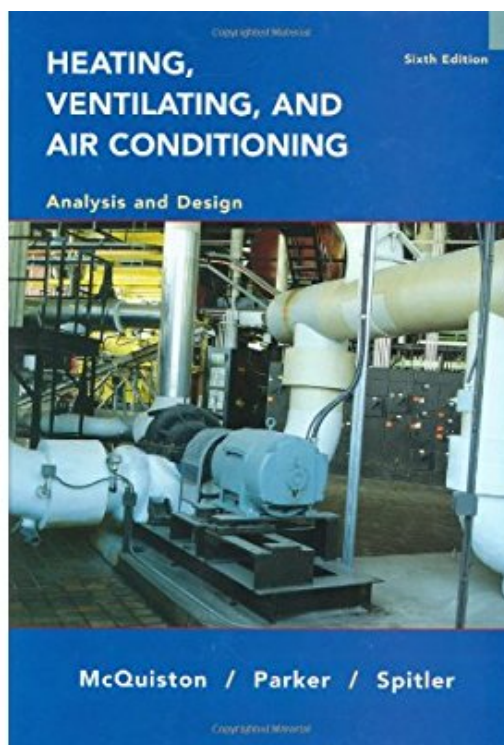


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Synopsis :

From the Back Cover Completely revised with the latest HVAC design practices! Based on the most recent standards from ASHRAE, this Sixth Edition provides complete and up-to-date coverage of all aspects of heating, ventilation, and air conditioning. You'll find the latest load calculation procedures, indoor air quality procedures, and issues related to ozone depletion. Throughout the text, numerous worked examples clearly show you how to apply the concepts in realistic scenarios. In addition, several computer programs (several new to this edition) help you understand key concepts and allow you to simulate various scenarios, such as psychometrics and air quality, load calculations, piping system design, duct system design, and cooling coil simulation. Additionally, the load calculation program has been revised and updated. These computer programs are available at the book's website: wiley.com/college/mcquiston Key Features of the Sixth Edition Additional new worked examples in the text and on the accompanying software. Chapters 6-9 have been extensively revised for clarity and ease of use. Chapter 8, The Cooling Load, now includes two approaches: the heat balance method, as recommended by ASHRAE, and the simpler RTS method. Both approaches include computer applications to aid in calculations. Provides complete, authoritative treatment of all aspects of HVAC, based on current ASHRAE standards. Numerous worked examples and homework problems provide realistic scenarios to apply concepts. Read more About the Author Faye C. McQuiston is professor emeritus of Mechanical and Aerospace Engineering at Oklahoma State University, Stillwater, Oklahoma. He is an active member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), recently completing a term as vice president. He has served on the Board of Directors and the Technology, Education, Member, and Publishing Councils, and he is past member of the Research and Technical, Education, and Standards Committees. Dr. McQuiston is a registered professional engineer and a consultant to several system design and equipment manufacturing firms. He is active in research related to the design of heating and air-conditioning systems, particularly heat-exchanger design and simulation and load calculations. He has written extensively on heating and air conditioning and is the coauthor of a basic fluid mechanics and heat transfer text. Jerald D. Parker is a professor emeritus of mechanical engineering at Oklahoma Christian University after serving 33 years on the mechanical engineering faculty at Oklahoma State University. During his tenure at Oklahoma State, he spent one year on leave with the engineering department of Du Pont in Newark, Delaware. He has been active at both the local and national level in ASME, where he is a fellow. In ASHRAE he has served as chairman of the Technical Committee on Fluid Mechanics and Heat Transfer, chairman of a standards project committee, and a member of the Continuing Education Committee. He is a registered professional engineer Jeffrey D. Spitler is a professor of mechanical and aerospace engineering at Oklahoma State University, Stillwater.. He is an active member of ASHRAE and has served on several technical committees, a standards committee, and the Student Activities Committee. He also serves on the board of directors of the International Building Performance Simulation Association. He is a registered professional engineer and has consulted on a number of different projects. Read more

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