Grondzik, Kwok, Mechanical and Electrical Equipment for Buildings, 12th Edition

©2015 978-1-118-61590-4

www.wiley.com/college/sc/meeb

The most widely-used text on the design of environmental control systems in buildings for students and practicing professionals, Mechanical and Electrical Equipment for Buildings has for generations prepared students of architecture, architectural engineering, and construction what they need to know about building systems and controlling a building’s environment. With over 2,200 drawings and photographs, the Twelfth Edition covers basic theory, preliminary building design guidelines, and detailed design procedure for buildings of all sizes, and also provides information on the latest technologies, emerging design trends, and updated codes.

The Wiley Advantage

- The only book that comprehensively covers all aspects of building systems
  - Discusses basic theory, preliminary building design guidelines, and detailed design procedure for buildings of all sizes
- Twice awarded the AIA's Citation for Excellence in International Architecture Book Publishing.

New To This Program

- Access code to new resources available on the Interactive Resource Center included with ever new, print copy as well as special packages.
- Icons found throughout the text indicating availability of related Interactive Animations on the online Interactive Resource Center companion site to expand on complex concepts
- Over 2,200 illustrations throughout the book with over 300 new to this edition
- Information on the latest design trends, codes, and technologies
Resources and Support

Join our communities and stay current with architecture, teaching best practices, and connect with colleagues from around the world.

Pinterest - http://pinterest.com/wileyarchdesign/
Instagram - http://instagram.com/wileyarchdesign/
Tumblr - http://www.tumblr.com/blog/wileyarchdesign

Wiley Faculty Network

The Wiley Faculty Network partners with researchers and faculty to provide the support and expertise you need to design your online course and enhance your instructional efficiency. Connect with one of 80+ Wiley Faculty Network Mentors and attend Online Events and Info Sessions to receive insight and guidance that is tailored to your needs at www.WhereFacultyConnect.com.

Resources and Supplements:

www.wiley.com/college/sc/meeb

Supplemental Resources:
- Interactive Animations demonstrating key concepts
- Self-tests and Flashcards by chapter for focused studying
- Supplemental Case Studies
- Learning Guide to the Book (Chapter Summaries and Outlines, Key Terms, Web Resources, and more)

Downloadable Resources:
- Case Studies
- Respondus Test Bank
- Instructor’s Manual
- Web Resources

Table of Contents

Chapter 1: Design Process
Chapter 2: Environmental Resources
Chapter 3: Sites and Resources
Chapter 4: Thermal Comfort
Chapter 5: Indoor Air
Chapter 6: Solar Geometry and Shading Devices
Chapter 7: Heat Flow
Chapter 8: Daylighting
Chapter 9: Passive Heating
Chapter 10: Passive Cooling
Chapter 11: Integrating Passive Systems
Chapter 12: Active Climate Control
Chapter 13: Lighting Fundamentals
Chapter 14: Electric Light Sources
Chapter 15: Lighting Design Process
Chapter 16: Luminaries
Chapter 17: Electric Lighting Applications
Chapter 18: Water and Basic Design
Chapter 19: Water Supply
Chapter 20: Liquid Waste
Chapter 21: Solid Waste
Chapter 22: Fundamentals of Architectural Acoustics
Chapter 23: Sound in Enclosed Spaces
Chapter 24: Building Noise Control
Chapter 25: Fire Protection
...
Chapter 30: Photovoltaic Systems
Chapter 31: Signal Systems
Chapter 32: Vertical Transportation: Passenger Elevators
Chapter 33: Vertical Transportation: Special Topics
Chapter 34: Moving Stairways and Walks