



# Mechanical and Electrical Equipment for Buildings

*Walter T. Grondzik, Alison G. Kwok*

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**Mechanical and Electrical Equipment for Buildings** Walter T. Grondzik, Alison G. Kwok  
**The definitive guide to environmental control systems, updated with emerging technology and trends**

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- Student Guide to the Textbook

*Mechanical and Electrical Equipment for Buildings, Twelfth Edition* is the industry standard reference that comprehensively covers all aspects of building systems. With over 2,200 drawings and photographs, the book discusses basic theory, preliminary building design guidelines, and detailed design procedure for buildings of all sizes. The updated twelfth edition includes over 300 new illustrations, plus information on the latest design trends, codes, and technologies, while the companion website offers new interactive features including animations, additional case studies, quizzes, and more.

Environmental control systems are the components of a building that keep occupants comfortable and help make the building work. *Mechanical and Electrical Equipment for Buildings* covers both active controls, like air conditioners and heaters, as well as passive controls like daylighting and natural ventilation. Because these systems comprise the entire energy use and costs of a building's life, the book stresses the importance of sustainability considerations during the design process, by both architects and builders. Authored by two leading green design educators, *MEEB* provides the most current information on low-energy architecture, including topics like:

- Context, comfort, and environmental resources
- Indoor air quality and thermal control
- Illumination, acoustics, and electricity
- Fire protection, signal systems, and transportation

Occupant comfort and building usability are the most critical factors in the success of a building design, and with environmental concerns mounting, it's becoming more and more important to approach projects from a sustainable perspective from the very beginning. As the definitive guide to environmental control systems for over 75 years, *Mechanical and Electrical Equipment for Buildings* is a complete resource for students and

professionals alike.

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