



# Mechanical and Electrical Equipment for Buildings

By Walter T. Grondzik, Alison G. Kwok

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**The definitive guide to environmental control systems, updated with emerging technology and trends**

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*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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## **Editorial Review**

From the Back Cover

### **THE DEFINITIVE GUIDE TO THE DESIGN OF ENVIRONMENTAL CONTROL SYSTEMS**

With over 2,200 drawings and photographs—more than 300 of them new to this edition—*Mechanical and Electrical Equipment for Buildings* covers basic theory, preliminary building design guidelines, and detailed design procedures for buildings of all sizes, and also provides information on the latest technologies, emerging design trends, and updated codes. In addition, the companion web site includes over 30 Interactive Animations, new case studies, a test bank in Respondus, and Instructor's Manual.

For more than 75 years, this classic text has been the industry standard teaching and practice reference for building environmental control systems. Authored by two leading green design educators, this instructive reference provides the most current information on low-energy architecture, including:

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

This completely updated and expanded *Twelfth Edition* continues to help prepare generations of students for their careers in architecture, architectural engineering, and construction management, and to supply professionals with in-depth information to assist them with their decision making in practice.

#### About the Author

**WALTER T. GRONZIK, PE, LEED AP BD+C**, is an architectural engineer and Professor of Architecture at Ball State University, Muncie, Indiana. Grondzik is a Fellow of ASHRAE, a Fellow of the American Solar Energy Society, and a past president of the Society of Building Science Educators and of the Architectural Research Centers Consortium. His research includes building commissioning, sustainability and high-performance building initiatives, and all areas of environmental control systems and their effects on buildings and occupants.

**ALISON G. KWOK, PHD, AIA, LEED AP BD+C**, is an architect and Professor of Architecture at the University of Oregon, Eugene, teaching design studios, seminars in building performance, and environmental technology. Kwok is a Fellow of the American Solar Energy Society and a Certified Passive House Consultant. Her research includes identifying adaptive and mitigation strategies for climate change, thermal comfort, and building performance case studies.

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