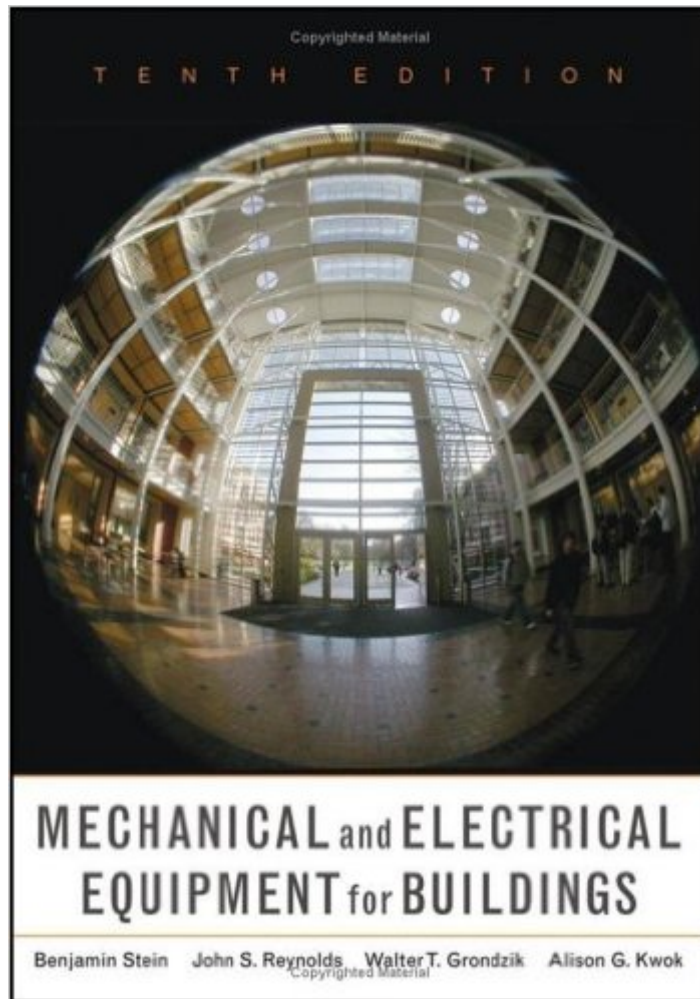


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# Mechanical And Electrical Equipment For Buildings, 10th Edition



## Synopsis

Continuing its proud heritage, this Tenth Edition provides thorough coverage of the latest in the theory and practice of environmental control system design. This bestselling book encompasses mechanical and electrical systems for buildings of all sizes, featuring design guidelines and detailed design procedures for every topic covered and supported by more than 2,200 illustrations—over 225 new to this edition!

## Book Information

Hardcover: 1744 pages

Publisher: Wiley; 10 edition (November 18, 2005)

Language: English

ISBN-10: 0471465917

ISBN-13: 978-0471465911

Product Dimensions: 7.8 x 2.4 x 10.1 inches

Shipping Weight: 6 pounds

Average Customer Review: 4.5 out of 5 stars— See all reviews— (61 customer reviews)

Best Sellers Rank: #416,301 in Books (See Top 100 in Books) #88 in Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Plumbing & Household Automation #640 in Books > Textbooks > Engineering > Mechanical Engineering #658 in Books > Arts & Photography > Architecture > Drafting & Presentation

## Customer Reviews

MEEB, I've spent so many nights staring into your soul. Trying to make sense of your dense graphs. Trying to find the water and air paths. You've been there for me, you learning tool. In the end we have to part. You must know that it's me not you. For you are truly a work of art. The most exciting and boringest book I ever knew.

I came across this book preparing Architectural Registration Exam (ARE). I have to say that this book is an essential for architects who are preparing MEP (Mechanical/Electrical/Plumbing) section of the ARE. The book is divided into basically nine sections. 1. design context 2. thermal comfort 3. illumination 4. acoustics 5. water/waste 6. fire protection 7. electricity 8. signal equipment 9. transportation. It describes various systems of each section with pretty accessible narrative. Abundance in graphics and diagrams is very helpful. The book is extremely helpful in understanding where each kit of parts fit into the overall building systems. For instance, I heard about

AHUs/ cooling towers/ refrigeration cycle/ boilers/ duct systems/ etc. , but I never knew how they fit and interconnect to one and another. The book, being encyclopedic in its contents, really helps to overcome that. The book also pays particular attention to the "sustainable" agendas and strategies.

This almost 1800 page treatise on mechanical and electrical design as it relates to architecture is one of a kind. It is not an artistic book on the subject, although some artistic ability is always needed in any aspect of building design. Instead it is a very technical book that shows how the architect must be part electrical engineer, mechanical engineer, electrician, physicist, plumber, safety specialist, and transportation engineer in order to design the modern building. And to top it all off, you need to be knowledgeable of current mechanical and electrical equipment - their specifications and their costs. The book has plenty of examples with step by step instructions on how to perform various subtasks. Many of these examples contain numerical calculations, so it will help if you have had freshman engineering physics, especially in the sections on illumination, acoustics, and electricity where calculations, tables, and equations abound. The book is broken into nine parts encompassing nearly every technical decision involved in designing a modern building. The first section is an introductory one on the context of design. That is followed by sections on thermal control, illumination, acoustics, water and waste, fire protection, electricity, signal systems, and finally in-building transportation. A lengthy appendix contains a great deal of supplemental information, including climate data for various parts of the United States, solar geometry, sound transmission data, and a listing of software that can be helpful in performing the tasks discussed in this book, and how that software can be obtained. I highly recommend this book to aspiring architects and also to civil engineers that are interested in the construction of modern buildings. It's been the flagship book on the subject for seventy years in its various editions, and probably will continue to be so for the foreseeable future.

I have been referencing past editions of this book for years. It's the bible to architects for understanding this subject matter. It covers more than the title suggests including overall design strategy for site and building, passive design for the building environment, acoustics, illumination and day-lighting, water conservation systems, vertical building transportation systems and design, fire protection and suppression design, along with the active mechanical and electrical systems design and equipment technology that the title suggests. It is one of the core reference books for the architect's library and others related to building construction. This new addition updates to the latest technology, and sustainable design practices. Another great book for passive design related to

building arrangement and form isÂ Sun, Wind & Light: Architectural Design Strategies, 2nd Edition

This book has been an essential textbook for architectural students, and reference for professionals since its first edition in 1935. Those already familiar with its earlier editions understand this book's importance - there is no other like it at all. It is by far the most complete and thorough reference on its subject. But the impressive thing about the new (10th) edition is how transformative and transformed it is. On one hand, it should be expected that a reference on mechanical and electrical systems is a constantly changing object. Codes are always being revised, mechanical systems introduced, new lighting types invented. Photovoltaics, for example, now merit an entire chapter. Electrical code changes require revisions throughout existing chapters. And so forth. But on the other hand, in addition to the "updating" of the material, there is considerable rethinking in this edition to building systems as an essential part of sustainable design. Mechanical systems in the book consume fossil fuels, in their use or at least in their creation. The book makes this a central theme. There is a sensitivity toward environmental issues in this book which is simply wonderful to see. The book presents a strong argument for environmentally responsible design as now being solidly a mainstream, intelligent approach to building.

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