

Mechanical And Electrical Equipment For Buildings 12th Edition

Revised standard textbook and/or reference on the relationship between mechanical and electrical systems and the buildings they serve. This edition extends the philosophy of the seventh edition (1986), emphasizing the themes of energy conservation and the use of renewable energy sources while keeping readers informed of the major changes in equipment technology wrought by the microprocessor and the computer. A background of college-level mathematics and physics is assumed, and the volume is recognized as an important reference for the national architectural licensing examination. Annotation copyrighted by Book News, Inc., Portland, OR

Introductory technical guidance for mechanical, electrical and civil engineers and construction managers interested in vibration isolators for mechanical and electrical equipment. Here is what is discussed:1. INTRODUCTION2. VIBRATION ISOLATION ELEMENTS3. MOUNTING ASSEMBLY TYPES4. TABLES OF RECOMMENDED VIBRATION ISOLATION DETAILS5. VIBRATION ISOLATION-MISCELLANEOUS. Presents basic theory and design guidelines while covering systems and equipment. Emphasizes conservation of resources and the use of renewable energy sources as well as rapid decision making and integration with other aspects of design. Much more comprehensive than previous editions: includes site design, water, waste, electricity, elevators, etc. It is the recommended reference for the national architectural licensing examinations (NCARB).

The definitive guide to the design of environmental control systems for buildings—now updated in its 13th Edition Mechanical and Electrical Equipment for Buildings is the most widely used text on the design of environmental control systems for buildings—helping students of architecture, architectural engineering, and construction understand what they need to know about building systems and controlling a building's environment. With over 2,200 drawings and photographs, this 13th Edition covers basic theory, preliminary building design guidelines, and detailed design procedure for buildings of all sizes. It also provides information on the latest technologies, emerging design trends, and updated codes. Presented in nine parts, Mechanical and Electrical Equipment for Buildings, Thirteenth Edition offers readers comprehensive coverage of: environmental resources; air quality; thermal, visual, and acoustic comfort; passive heating and cooling; water design and supply; daylighting and electric lighting; liquid and solid waste; and building noise control. This book also presents the latest information on fire protection, electrical systems; and elevator and escalator systems. This Thirteenth Edition features: Over 2,200 illustrations, with 200 new photographs and illustrations All-new coverage of high-performance building design Thoroughly revised references to codes and standards: ASHRAE, IES, USGBC (LEED), Living Building Challenge, WELL Building Standard, and more Updated offering of best-in-class ancillary materials for students and instructors available via the book's companion website Architect Registration Examination® (ARE®) style study questions available in the instructor's manual and student guide Mechanical and Electrical Equipment for Buildings, has been the industry standard reference that comprehensively covers all aspects of building systems for over 80 years. This Thirteenth Edition has evolved to reflect the ever-growing complexities of building design, and has maintained its relevance by allowing for the conversation to include "why" as well as "how to." Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online

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Mechanical and Electrical Equipment for Buildings John Wiley & Sons

Design context -- Thermal control -- Illumination -- Acoustics -- Water and waste -- Fire protection -- Electricity -- Signal systems -- Transportation -- Appendices

Lubrication of Electrical and Mechanical Components in Electric Power Equipment presents an analysis of multiple applications of lubricants in the power industry for both electrical and mechanical parts. One of the key features of this book includes a look at the use of lubricants for surfaces of electrical and mechanical parts protection from mechanical wear and friction.

Also included are examples of degradation due to fretting, as well as corrosion protection when lubricant is a barrier between metallic surfaces and atmospheric pollutants. This book analyzes the effects of chemical composition and consistency (fluids, greases, solid lubricants) and the durability of lubricants in regard to various types of contacts and mechanical parts material, design and load. Focused on the importance of carefully choosing the lubricants to maintain a stable contact resistance; preserve the physical integrity of the contact surface; and extend the useful life of mechanical parts, such as bearings, the author presents an exhaustive list of lubricants manufacturers and products recommended for use in the electrical industry.

New for May 2004 is this specially priced set which brings together the definitive guide to the design of environmental control systems (Stein, published Nov 2002) and "...one of the most useful and important books on building design in years..." (Lechner, published Jan 2001, reviewed by Environmental Building News). Combining over 3000 pages, the set offers every architect two essential fixtures for their firm, and every student the perfect means by which to acquire the basic knowledge and skills needed to design environmental and business control systems. By buying the two books as a set the reader will save just over 20%.

For more than half a century, this book has been a fixture in architecture and construction firms the world over. Twice awarded the AIA's Citation for Excellence in International Architecture Book Publishing, Mechanical and Electrical Equipment for Buildings is recognized for its comprehensiveness, clarity of presentation, and timely coverage of new design trends and technologies. Addressing mechanical and electrical systems for buildings of all sizes, it provides design guidelines and detailed design procedures for each topic covered. Thoroughly updated to cover the latest technologies, new and emerging design trends, and relevant codes, this latest edition features more than 2,200 illustrations--200 new to this edition--and a companion Website with additional resources.

The Interactive Resource Center is an online learning environment where instructors and students can access the tools they need to make efficient use of their time, while reinforcing and assessing their understanding of key concepts for successful understanding of the course. The online Interactive Resource Center contains resources tied to the book, such as: Interactive Animations Interactive Self-tests Interactive Flashcards Case Studies Respondus Testbank (instructors only) Instructor's Manual (over 200 pages) including additional resources (Instructors only) Roadmap to the 12th Edition (Instructors only) Student Guide to the Textbook 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

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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.

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