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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.

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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."

Revised standard textbook and/or reference on the relationship between mechanical and electrical systems and the

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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

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).

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.

Maximize your company's energy output while ensuring the reliability and longevity of your industrial electrical equipment! Everything you need for selection, applications, operations, diagnostic testing, troubleshooting and maintenance for all capital equipment placed firmly in your grasp. Keeping your equipment running efficiently and smoothly could make the difference between profit and loss. Electrical Equipment Handbook: Troubleshooting and Maintenance provides you with the state-of-the-art information for achieving the highest performance from your transformers, motors, speed drives, generator, rectifiers, and inverters. With this book in hand you'll understand various diagnostic testing methods and inspection techniques as well as advance fault detection techniques critical components and common failure modes. This handbook will answer all your questions about industrial electrical equipment. In Electrical Equipment Handbook: Troubleshooting and

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Maintenance, you will: Learn about the various types of transformers, motors, variable speed drives, generators, rectifiers, inverters, and uninterruptible power systems. Understand diagnostic testing and inspection, advanced fault detection techniques, critical components, and common failure modes. Study selection criteria, commissioning requirements, predictive and preventive maintenance, reliability, testing and cost discover the maintenance required to minimize their operating cost and maximize their efficiency, reliability and longevity.

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

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