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Design of Mechanical and Electrical Systems in Buildings

J. Trost, Ifte Choudhury

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Using a concise and logical format that explains fundamentals in very simple terms—yet extensively—this book helps readers develop a working knowledge of the design decisions, equipment options, and operations of different building sub-systems. Readers will learn to design, size, and detail the different sub-systems installations, select fixtures and components, and integrate all the building sub-systems with site, building, foundations, structure, materials, and finishes. Organized into four parts, topics include: **Lighting chapters** cover perceptions, lamps, luminaries, and design examples. **Electrical chapters** explain the energy form that lights, heats, cools, and powers buildings. **Heating, ventilating, and air conditioning chapters** show how to calculate heating/cooling costs for home/office, determine the size of air distribution components, and how to consider HVAC options and zoning for home/office. **Water and plumbing chapters** introduces water demand for buildings, plumbing systems for buildings, methods of site waterscape, and plumbing fixtures and components. For architects, constructors, managers, occupants, and owners who wish to refine and improve their understanding of efficiency in building operation.

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