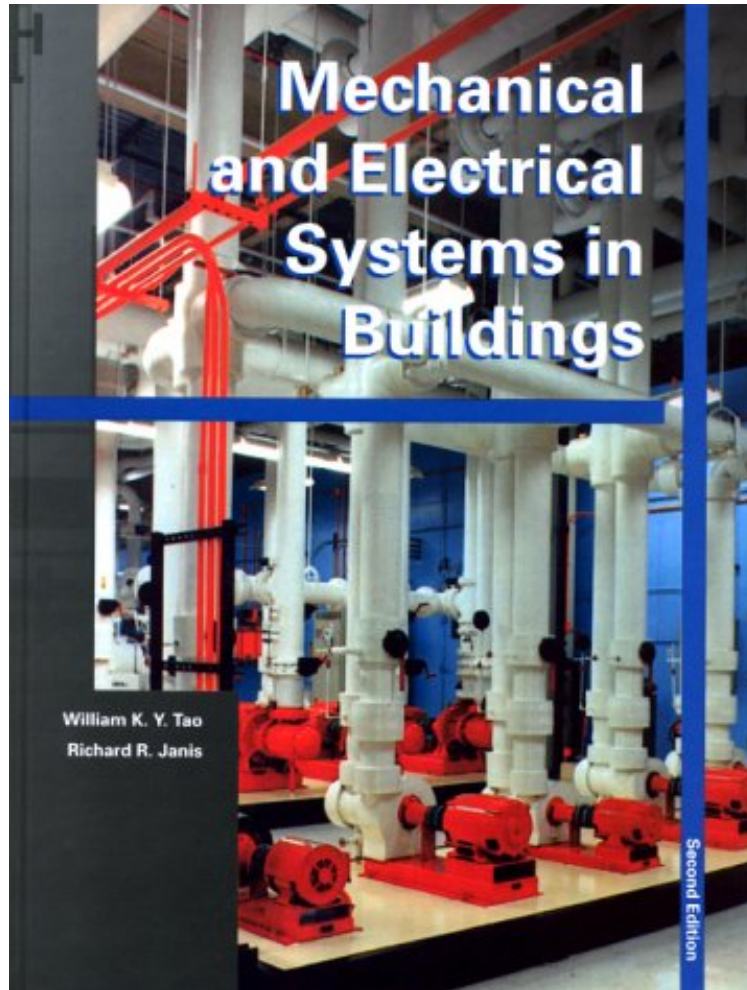


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Mechanical and Electrical Systems in Buildings (2nd Edition)

William K. Y. Tao, Richard R. Janis

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For undergraduate-level courses in Building Mechanical Systems, Building Electrical Systems, and Illumination offered to students in Construction Technology, Architecture, Civil Technology, and Interior Design and Building Engineering. Designed to bridge the ever-widening gap between textbooks and the realities that confront engineering, and construction professionals, this text provides an overview of the principles and applications of all basic mechanical and electrical systems--with a focus on what, why, and basic design data examples. It explores emerging technology and environmental issues, and makes reference to essential engineering calculations and condensed data to illustrate principles.

From the Publisher Designed to bridge the ever-widening gap between textbooks and the realities that confront engineering, and construction professionals, this text provides an overview of the principles and applications of all basic mechanical and electrical systems -- with a focus on what, why, and basic design data examples. It explores emerging technology and environmental issues, and makes reference to essential engineering calculations and condensed data to illustrate principles. From the Inside Flap PREFACE WE ARE GRATIFIED TO LEARN THAT THE FIRST EDITION OF THIS BOOK HAS BEEN WELL RECEIVED BY OUR colleagues in colleges and universities as well as by design and construction professionals. We have received many comments and suggestions, new reference data, and our publisher encouraged us to prepare this second edition only two years after the initial publication. One major addition in this second edition is Chapter 18, Noise and Vibrations in Mechanical and Electrical Systems. With the increased use of mechanical and electrical equipment in buildings, indoor and outdoor noise and vibration could be a detriment to productivity and quality of life. This new chapter provides practical guidelines for architects, engineers, contractors, and building owners. As in the other chapters, the approach is to emphasize what and why rather than how. The topics covered in this book are broad and are in a state of continuous advancement. New technologies and practices are occurring at such a rapid pace that substantial updating is necessary every few years. This is particularly true in the area of commuications and illumination engineering. For this reason, we decided to engage several contributing authors who are authorities ill their fields of engineering or professional practices. In future editions, additional contributing authors will be invited to participate, providing valuable inputs to one or more of the remaining chapters. We hope that with each new edition, this book will be recognized as the authority in every field of building engineering. Our approach, however, is to stress uniformity, continuity, and consistency so that all chapters read as if written by one hand. This book covers five major disciplines, namely: HVAC; plumbing and fire protection; electrical power and auxiliary systems; illumination; and noise and vibrations. Chapter 1, The Scope and Impact of Mechanical and Electrical Systems, is a useful overview for both students and professionals. It provides comprehensive information not found in other publications, a culmination of years of practical experience. Instructors may begin the course by briefly touching upon the topics in Chapter 1, later returning to it at the end of the course when students have a better understanding of the topics. Professionals and others will find Chapter 1 useful in guiding them to specific chapters relevant to them. Either way, Chapter 1 is a vital tool and places each discipline into the increasingly complex field of architecture and engineering today. We are indebted to the reviewers, engineering and technical associations, and leading product manufacturers (listed separately in the Acknowledgments) for their cooperation in providing data and illustrations. William Tao Coauthor and Editor From the Back Cover The authors are widely recognized as leading authorities in the field and have extensive professional and academic experience. Herein is an outstanding combination of the basic concepts underlying design plus a practical approach to handling a wide variety of realistic design situations. Features new to this second edition include: A chapter on noise and vibration in mechanical and electrical systems. This will assist the reader in dealing with this problem through design. A large number of new problems and applications. Incorporation of the latest communication technology as applied to building systems. The chapter on lighting design has been enhanced with added architectural considerations. Chapters on communications, electrical design, and lighting design have been reorganized to provide smoother flow through the material. Many new illustrations to support the presentation.