



# Thermal Environmental Engineering (3rd Edition)

By Thomas H. Kuehn, James W. Ramsey, James L. Threlkeld

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The latest edition of the classic book grounded in the fundamentals. It introduces heating, ventilation, and air conditioning starting with basic principles of engineering leading to the latest HVAC design practice. Its engineering approach emphasizes fundamentals and realistic applications. Acknowledging numerous approaches to all engineering problems, the book presents alternate approaches and describes why some approaches work best in specific applications and what compromises are made using each of them. Provides carefully worked examples with step-by-step solutions listing assumptions, reference equations, and supporting material. Incorporates a careful use of easy-to-follow units and conversion factors providing basic mass and energy balances. The third edition of *Thermal Environmental Engineering* has been updated to reflect current approaches as well as new chapters on energy estimation, air handling system design, and piping system design. Discusses new replacement refrigerants as well as environmental issues. Presents single and multiple zone psychronetric systems; moisture transport in building structures; and the latest topics on indoor air quality and human comfort. An essential reference book for professional mechanical engineers.

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### **From the Back Cover**

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