



Introduction to Thermal and Fluid Engineering (Hardback)

By Allan D. Kraus, James R. Welty, Abdul Aziz

Taylor Francis Inc, United States, 2011. Hardback. Condition: New. New.. Language: English . Brand New Book. Introduction to Thermal and Fluid Engineering combines coverage of basic thermodynamics, fluid mechanics, and heat transfer for a one- or two-term course for a variety of engineering majors. The book covers fundamental concepts, definitions, and models in the context of engineering examples and case studies. It carefully explains the methods used to evaluate changes in equilibrium, mass, energy, and other measurable properties, most notably temperature. It then also discusses techniques used to assess the effects of those changes on large, multi-component systems in areas ranging from mechanical, civil, and environmental engineering to electrical and computer technologies. Includes a motivational student study guide on CD to promote successful evaluation of energy systems This material helps readers optimize problem solving using practices to determine equilibrium limits and entropy, as well as track energy forms and rates of progress for processes in both closed and open thermodynamic systems. Presenting a variety of system examples, tables, and charts to reinforce understanding, the book includes coverage of: * How automobile and aircraft engines work * Construction of steam power plants and refrigeration systems * Gas and vapor power processes...



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