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Mechatronics has evolved into a way of life in engineering practice, and indeed pervades virtually every aspect of the modern world. As the synergistic integration of mechanical, electrical, and computer systems, the successful implementation of mechatronic systems requires the integrated expertise of specialists from each of these areas. De

This survey of thermal systems engineering combines coverage of thermodynamics, fluid flow, and heat transfer in one volume. Developed by leading educators in the field, this book sets the standard for those interested in the thermal-fluids market. Drawing on the best of what works from market leading texts in thermodynamics (Moran), fluids (Munson) and heat transfer (Incropera), this book introduces thermal engineering using a systems focus, introduces structured problem-solving techniques, and provides applications of interest to all engineers.

Over 170 years ago, Sadi Carnot, a French engineer, published his famous article "Reflections on the motive power of fire" and established a new field of science: classical thermodynamics. Since 1985, the scholars in the Naval University of Engineering (from 1949 to 1998) have been making the research work in the field of finite time thermodynamics. This multi-authored book deals with the recent advances of finite time thermodynamics in the Naval University of Engineering. It illustrates how the gap between thermodynamics, heat transfer, and fluid mechanics is bridged. It also illustrates how the gap between physics and engineering is bridged. The readers should find the papers informative and useful for analysis and design of thermodynamic systems with improved performance. The authors hope that this collection of work devoted to finite thermodynamics will provide encouragement for further research in the field.

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