

Principles Of Engineering Thermodynamics Moran Shapiro

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a comprehensive assessment of the methodologies of thermodynamic optimization exergy analysis and thermoeconomics and their application to the design of efficient and environmentally sound energy systems the chapters are organized in a sequence that begins with pure thermodynamics and progresses towards the blending of thermodynamics with other disciplines such as heat transfer and cost accounting three methods of analysis stand out entropy generation minimization exergy or availability analysis and thermoeconomics the book reviews current directions in a field that is both extremely important and intellectually alive additionally new directions for research on thermodynamics and optimization are revealed

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the first comprehensive reference on mechatronics the mechatronics handbook was quickly embraced as the gold standard in the field from washing machines to coffeemakers to cell phones to the ubiquitous pc in almost every household what these days doesn t take advantage of mechatronics in its design and function in the scant five years since the initial publication of the handbook the latest generation of smart products has made this even more obvious too much material to cover in a single volume originally a single volume reference the handbook has grown along with the field the need for easy access to new material on rapid changes in technology especially in computers and software has made the single volume format unwieldy the second edition is offered as two easily digestible books making the material not only more accessible but also more focused completely revised and updated robert bishop s seminal work is still the most exhaustive state of the art treatment of the field available

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this book covers the key elements of physical systems modeling sensors and actuators signals and systems computers and logic systems and software and data acquisition it describes

mathematical models of the mechanical electrical and fluid subsystems that comprise many mechatronic systems

applied second law analysis of heat engine cycles offers a concise practical approach to one of the two building blocks of classical thermodynamics and demonstrates how it can be a powerful tool in the analysis of heat engine cycles including real system models with the industry standard heat balance simulation software the thermoflow suite gtpro master peace thermoflex and excel vba the book discusses both the performance and the cost it also features both calculated and actual examples for gas turbines steam turbines and simple and combined cycles from major original equipment manufacturers oems in addition novel cycles proposed by researchers and independent technology developers will also be critically examined this book will be a valuable reference for practicing engineers enabling the reader to approach the most difficult thermal design and analysis problems in a logical manner

moran s principles of engineering thermodynamics si version continues to offer a comprehensive and rigorous treatment of classical thermodynamics while retaining an engineering perspective with concise applications oriented discussion of topics and self test problems this book encourages students to monitor their own learning this classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics heat transfer and statistical thermodynamics and prepares students to effectively apply thermodynamics in the practice of engineering this edition is revised with additional examples and end of chapter problems to increase student comprehension

a textbook for undergraduate university students enrolled in engineering or engineering science the book presents thermodynamics in an exact manner while at the same time keeps the presentation simple enough for the beginner student the subjects treated in the book include the first and second laws of thermodynamics and their applications e g power generation internal combustion engines pumps and compressors refrigeration conventional and absorption osmosis combustion and chemical processes and many more

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