

Fundamentals Of Chemical Engineering Thermodynamics Si Edition

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energy its discovery its availability its use concerns all of us in general and the engineers of today and tomorrow in particular the study of thermodynamics the science of energy is a critical element in the education of all types of engineers engineering thermodynamics provides a thorough introduction to the art and science of engineering thermodynamics it describes in a straightforward fashion the basic tools necessary to obtain quantitative solutions to common engineering applications involving energy and its conversion conservation and transfer this book is directed toward sophomore junior and senior students who have studied elementary physics and calculus and who are majoring in mechanical engineering it serves as a convenient reference for other engineering disciplines as well the

first part of the book is devoted to basic thermodynamic principles essentially presented in the classic way the second part applies these principles to many situations including air conditioning and the interpretation of statistical phenomena

this text continues its tradition of setting the standard for teaching students how to be effective problem solvers now in its eighth edition this market leading text emphasizes the authors collective teaching expertise as well as the signature methodologies that have taught entire generations of engineers worldwide integrated throughout the text are real world applications that emphasize the relevance of thermodynamics principles to some of the most critical problems and issues of today including a wealth of coverage of topics related to energy and the environment biomedical bioengineering and emerging technologies

written in an informal first person writing style that makes abstract concepts easier to understand principles of engineering thermodynamics transforms the way students learn thermodynamics while continuing to provide strong coverage of fundamental principles and applications the book asks students to explore how changes in a particular parameter can change a device s or process performance this approach helps them develop a better understanding of how to apply thermodynamics in their future careers and a stronger intuitive feel for how the different components of thermodynamics are interrelated throughout the book students are encouraged to develop computer based models of devices processes and cycles and to take advantage of the speed of internet based programs and computer apps to find thermodynamic data just as practicing engineers do important notice media content referenced within the product description or the product text may not be available in the ebook version

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engineering thermodynamics has been designed for students of all branches of engineering specially undergraduate students of mechanical engineering the book will also serve as reference manual for practising engineers the book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject the text has been supplemented with solved numerical problems illustrations and question banks the present book has been divided in five parts thermodynamic laws and relations properties of gases and vapours thermodynamics cycles heat transfer and heat exchangers annexures

thermodynamics deals with energy interactions between material bodies it is the science of 3e s namely energy entropy and equilibrium the applications of its laws and principles are found in all fields of energy technology notably in steam gas and nuclear power plants internal combustion engines gas turbines jet propulsion refrigeration air conditioning compressors gas dynamics and direct energy conversion starting with the basic concept the book discusses the important topics such as basic concepts heat and work energy ideal and real gases zeroth first and second laws of thermodynamics entropy and third law available energy and exergy gas power cycles vapour power cycles general thermodynamic relations refrigeration cycles psychrometry non reactive mixtures reactive mixture chemical equilibrium direct energy conversion compressible flows and heat transfer the book is an essential text for be b tech for mechanical engineering students upsc and gate examinations

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