

Fundamentals Of Chemical Engineering Thermodynamics Si Edition

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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

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 textbook offers a clear progressive introduction to thermodynamics tailored for university students and future engineers eager to understand the physical principles behind engines and refrigeration systems it begins from the basics and progressively builds a solid conceptual foundation focusing on real world applications throughout with 59 fully commented step by step calculation examples and 96 problems with solutions it equips readers to tackle engineering challenges with confidence alongside rigorous analysis the book weaves in historical insights and scientific context connecting core ideas to their origins and their technological impact an essential companion for those who want not only to solve problems but also to understand why the world works the way it does

a brand new book fundamentals of chemical engineering thermodynamics makes the abstract subject of chemical engineering thermodynamics more accessible to undergraduate students the subject is presented through a problem solving inductive from specific to general learning approach written in a conversational and approachable manner suitable for either a one semester course or two semester sequence in the subject this book covers thermodynamics in a complete and mathematically rigorous manner with an emphasis on solving practical engineering problems the approach taken stresses problem solving and draws from best practice engineering

teaching strategies fundamentals of chemical engineering thermodynamics uses examples to frame the importance of the material each topic begins with a motivational example that is investigated in context to that topic this framing of the material is helpful to all readers particularly to global learners who require big picture insights and hands on learners who struggle with abstractions each worked example is fully annotated with sketches and comments on the thought process behind the solved problems common errors are presented and explained extensive margin notes add to the book accessibility as well as presenting opportunities for investigation 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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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

disc contains programs used to generate values contained in tables for properties of steam refrigerant 12 and air plus either low pressure gases are available on disc disc contains property software that is menu driven and can be used to evaluate properties in either si or english units

this new edition of borgnakke s fundamentals of thermodynamics 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 text 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

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