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uses examples to  
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that is investigated in  
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Chemical Engineering  
Sciences) 1st Edition.

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Introductory Chemical  
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Thermodynamics,  
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readers master the  
fundamentals of  
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thermodynamics as  
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By contrast, this book is truly aimed at providing the “fundamentals” of chemical engineering thermodynamics for the undergraduate student. Once complete, the student

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will have the proper background for follow-on undergraduate courses that rely on a solid foundation in this field of study or for advanced courses in thermodynamics.

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**Matsoukas Themis**  
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Specific volume is defined as the quantity of volume occupied by unit mass of substance and is denoted by.

Mathematically, specific volume is equal to inverse of density of that substance and

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density is denoted by.  
Density of ammonia,  
is equal to. Substitute  
for in equation (1) to  
calculate the specific  
volume of ammonia,.

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Of Chemical Engineering  
Thermodynamics. By  
Themis Matsoukas.

Published Oct 2, 2012  
by Pearson. Part of  
the International  
Series in the Physical  
and Chemical  
Engineering Sciences  
series.

**Fundamentals of  
Chemical  
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## **Thermodynamics | InformIT**

Background: This text was used in Spring 2014 for Donald P.

Visco's undergraduate course in Equilibrium Thermodynamics taught within the Chemical Engineering Department at The University of Akron.

This course was taken by mostly



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STEM and Honors students. This was the first semester of the text's publication. The class completed Chapters 1-14

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Thermodynamics sets  
the standard for  
teaching students

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how to be effective problem solvers. Integrated throughout this product are real-world applications that emphasize the relevance of thermodynamic principles to some of the most critical problems and issues of today.

## **Interactive**

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with applications to  
chemical processes /  
Themis Matsoukas.

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My ...**

The gold standard for  
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Of Chemical Engineering  
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chemical engineering information—from the fundamentals to the state of the art. This industry-standard resource, first published in 1934, has equipped generations of engineers and chemists with vital information, data, and insights. Thoroughly revised to reflect the

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latest technological  
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processes, Perry's  
Chemical Engineers'  
Handbook, Ninth  
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The Clear, Well-  
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Introduction to  
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Calculations for All  
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thermodynamics far  
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to help them perform  
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of his award-winning courses at Penn State, Dr. Themis Matsoukas focuses on “why” as well as “how.” He offers extensive imagery to help students conceptualize the equations, illuminating thermodynamics with more than 100 figures, as well as 190 examples from within

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and beyond chemical engineering. Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends thermodynamics to mixtures, emphasizing phase and chemical equilibrium. Throughout, Matsoukas focuses

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is presented through  
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a problem-solving  
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learning approach,  
written in a  
conversational and  
approachable  
manner. Suitable for  
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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

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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

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include water  
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Fundamentals and  
Applications is a 2005  
text for a first  
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Chemical  
Engineering. The  
focus is on  
macroscopic

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of thermodynamics;  
discussions of  
modeling and  
molecular situations  
are integrated  
throughout.

Underpinning this text  
is the knowledge that  
while thermodynamics  
describes natural  
phenomena, those  
descriptions are the  
products of creative,  
systematic minds.



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Nature unfolds without reference to human concepts of energy, entropy, or fugacity. Natural complexity can be organized and studied by thermodynamics methodology. The power of thermodynamics can be used to advantage if the fundamentals are understood. This

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text's emphasis is on fundamentals rather than modeling.

Knowledge of the basics will enhance the ability to combine them with models when applying thermodynamics to practical situations.

While the goal of an engineering education is to teach effective problem solving, this

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text never forgets the delight of discovery, the satisfaction of grasping intricate concepts, and the stimulation of the scholarly atmosphere.

Thermodynamics:  
Fundamentals and  
Applications for  
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explores the concepts  
and properties of

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of thermodynamics and illustrates how they can be applied to solve practical problems. The book introduces the fundamentals of thermodynamics for multi-phase, multi-component systems, providing a framework for dealing with problems in chemical engineering including

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mixing, compressing, and distilling fluids.

The first eight chapters of

Thermodynamics

focus on single-component

thermodynamics,

introducing important

concepts that will be

referenced throughout

subsequent chapters.

Later chapters

introduce modeling for

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of multi-component systems. Topics covered include: properties as a function of state variables; first and second law of thermodynamics; power cycles, combustion, refrigeration cycles, and heat pumps; equilibrium phase relationships;

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of correlations and calculations of vapor-liquid equilibrium data; elementary theories of solutions; and the efficiency of multicomponent separation and reaction processes. The Second Law of Thermodynamics, availability concepts, and process efficiency receive extensive

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coverage. The clear, well-organized sequence of the chapters helps students successfully learn and retain information. Each of the fifteen chapters includes updated sample problems that underline key principles and problem-solving steps. The book has



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numerous appendixes for quick reference on everything from conversion factors to Francis constants, and from properties of pure substances to thermodynamics tables and Diagrams. Thermodynamics can be used by chemical, petroleum, and mechanical engineering

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of departments in introductory and intermediate courses on engineering thermodynamics and thermodynamics fundamentals. Born and raised in Chile, Miguel T. Fleischer earned his M.S. and Ph.D. in chemical engineering from the University of Houston where he is an

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adjunct professor and the undergraduate program director of the Chemical and Biomolecular Engineering Department. Dr. Fleischer worked at Royal Dutch Shell for more than 26 years in research and development, manufacturing, finance, and

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management. He began teaching when he was an undergraduate student in Chile where he developed a program sponsored by Universidad Catolica de Chile to prepare high school students for college. He was the co-owner and CEO of Fleischer International Trading,

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a private enterprise that imported and distributed wines from all over the world for 13 years. He continued teaching while he was a graduate student at the University of Houston. He has received the Outstanding Lecturer award of the Cullen College of

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Engineering four times, the University's Teaching Excellence Award, the Cullen College of Engineering's Career Teaching Award, and the Cullen College of Engineering's Distinguished Engineering Alumni Award.

Chemical engineers

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face the challenge of learning the difficult concept and application of entropy and the 2nd Law of Thermodynamics. By following a visual approach and offering qualitative discussions of the role of molecular interactions, Koretsky helps them understand and

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visualize  
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Highlighted examples  
show how the  
material is applied in  
the real world.

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includes biological  
content and  
examples, the  
Equation of State  
approach for both  
liquid and vapor  
phases in VLE, and



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of the practical side of the 2nd Law. Engineers will then be able to use this resource as the basis for more advanced concepts.

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involving commercial applications, a feature widely praised by reviewers and teachers. 2003 edition.

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