

# Using Thermodynamic Tables

For most of the problems, the state of a substance will be:

- Compressed liquid
- Saturated liquid
- Saturated mixture
- Saturated vapor
- Superheated vapor

To find any value from a thermodynamic table, we need to have 2 independent properties. Keep in mind that P and T are not independent properties while boiling (when we have saturated liquid, saturated mixture, or saturated vapor):

- Pressure, P [kPa]
- Temperature, T [ $^{\circ}$ C]
- Specific volume,  $v$  [ $\text{m}^3/\text{kg}$ ]
- Specific internal energy,  $u$  [kJ/kg] (Use  $u$  in your energy balance for closed systems)
- Specific enthalpy,  $h$  [kJ/kg] (Use  $h$  in your energy balance for control volumes)
- Specific entropy,  $s$  [kJ/kg  $\cdot$  K]

What is given at a state?	What to do
P and T	<p>Check saturated liquid table and find the row for the given temperature. Read the pressure value in the row. That is <math>P_{\text{sat}}</math>, saturation pressure at the corresponding temperature.</p> <p><math>P &gt; P_{\text{sat}}</math> or <math>T &lt; T_{\text{sat}} \rightarrow</math> compressed liquid</p> <p><math>P = P_{\text{sat}}</math> or <math>T = T_{\text{sat}} \rightarrow</math> saturated liquid or saturated mixture or saturated vapor You'll need another property to locate the exact state</p> <p><math>P &lt; P_{\text{sat}}</math> or <math>T &gt; T_{\text{sat}} \rightarrow</math> superheated vapor</p>
T and one of the following: $v$ , $u$ , $h$ , or $s$	<p>First have a look at the saturated liquid temperature table. Here is an example with the specific volume but you substitute <math>v</math> with <math>u</math>, <math>h</math>, or <math>s</math> if that is given:</p> <p><math>v &lt; v_f \rightarrow</math> compressed liquid</p> <p><math>v = v_f \rightarrow</math> saturated liquid</p> <p><math>v_f &lt; v &lt; v_g \rightarrow</math> saturated mixture, quality <math>x</math> should be calculated through <math>v = v_f + x (v_g - v_f)</math></p> <p><math>v = v_g \rightarrow</math> saturated vapor</p> <p><math>v &gt; v_f \rightarrow</math> superheated vapor</p>
P and one of the following: $v$ , $u$ , $h$ , or $s$	<p>First have a look at the saturated liquid pressure table. Here is an example with the specific volume but you substitute <math>v</math> with <math>u</math>, <math>h</math>, or <math>s</math> if that is given:</p> <p><math>v &lt; v_f \rightarrow</math> compressed liquid</p> <p><math>v = v_f \rightarrow</math> saturated liquid</p> <p><math>v_f &lt; v &lt; v_g \rightarrow</math> saturated mixture, quality should be calculated through <math>v = v_f + x (v_g - v_f)</math></p> <p><math>v = v_g \rightarrow</math> saturated vapor</p> <p><math>v &gt; v_f \rightarrow</math> superheated vapor</p>

# Tables And Figures For Use With Thermodynamics

**Engineers Joint Council**



## **Tables And Figures For Use With Thermodynamics:**

*Property Tables and Figures* Kenneth Wark, 1999

### **Modern Engineering Thermodynamics - Textbook with Tables**

**Booklet** Robert T. Balmer, 2011-01-03 Modern Engineering Thermodynamics Textbook with Tables Booklet offers a problem solving approach to basic and applied engineering thermodynamics with historical vignettes critical thinking boxes and case studies throughout to help relate abstract concepts to actual engineering applications It also contains applications to modern engineering issues This textbook is designed for use in a standard two semester engineering thermodynamics course sequence with the goal of helping students develop engineering problem solving skills through the use of structured problem solving techniques The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs The Second Law of Thermodynamics is introduced through a basic entropy concept providing students a more intuitive understanding of this key course topic Property Values are discussed before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems provide an extensive opportunity to practice solving problems For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet University students in mechanical chemical and general engineering taking a thermodynamics course will find this book extremely helpful Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics Helps students develop engineering problem solving skills through the use of structured problem solving techniques Introduces the Second Law of Thermodynamics through a basic entropy concept providing students a more intuitive understanding of this key course topic Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems offer students extensive opportunity to practice solving problems Historical Vignettes Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet

### **Handbook of Thermodynamic Tables and**

**Diagrams** Charles Edward Lucke, 1915

### **Thermodynamics and Energy Conversion Principles**

Kaushal Dhawan, 2025-02-20

Thermodynamics and Energy Conversion Principles is a comprehensive guide to understanding how energy transforms from one form to another Crafted by experts in physics engineering and related fields this book covers both fundamental principles and practical applications of energy conversion We start with the basics of thermodynamics explaining concepts such as energy work and temperature before delving into the core laws of thermodynamics that govern energy behavior Beyond theory we explore real world applications like power plants refrigerators and heat engines discussing various cycles such as the Rankine cycle used in steam power plants and analyzing their efficiency Modern advancements in energy

conversion including renewable sources like solar and wind power are also covered We address challenges like energy storage and efficient energy use providing a strong foundation for understanding and solving global issues like climate change Thermodynamics and Energy Conversion Principles is an invaluable resource for students researchers and anyone interested in how energy is converted and utilized in our world It combines theoretical knowledge with practical insights to foster sustainable energy solutions      Library of Congress Subject Headings Library of Congress,2011      *International Thermodynamic Tables of the Fluid State, Argon, 1971* S. Angus,B. Armstrong,A. L. Gosman,2016-08-12 Thermodynamics and Thermochemistry Thermodynamic Tables Project is a result of a chemistry conference in 1963 The text contains various studies lessons and experimental data that are relevant to the field The book is divided into two chapters the first one includes lessons about the constituent tables encompassing the physical constants and fixed points vapor pressure equations PVT surface equations and derived properties For each of these topics the corresponding formula is explained Chapter 2 highlights the IUPAC International Union of Pure and Applied Chemistry tables and explores the table s physical constants and PVT equations together with its relevant subtopics The last part of the book illustrates different tables that are closely associated with the constituent and IUPAC tables The text caters to people who are interested in studying this field of chemistry including undergraduates and postgraduates      Fundamentals of Thermodynamics Mr. Rohit Manglik,2023-07-23 Explains thermodynamic principles laws and their applications in engineering systems      **Abridged Thermodynamic and Thermochemical Tables** F. D. Hamblin,2016-07-28 Abridged Thermodynamics and Thermochemical Tables SI Units is a compilation of different tables that can be applied in the study of thermodynamics physical chemistry and gas dynamics The book includes tables for the thermodynamic properties of different substances such as water saturated water steam saturated dichlorodifluoromethane dichlorodifluoromethane freon 12 and air at low pressure enthalpies of various gases and vapors various hydrocarbons as well as other various substances logarithms of equilibrium critical constraints for various inorganic and organic substances different line functions for perfect gases with specific heat and transport properties of various gases at atmospheric pressure and steam at various pressures The text is primarily recommended for students as its contents have been put together with the ease of students use have been taken into consideration However those working in the fields who require the use of these tables as well as those who have the occasional need for data would also find this book as an excellent reference      Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office,2009      *Fundamentals of Engineering Thermodynamics* Michael J. Moran,Howard N. Shapiro,Daisie D. Boettner,Margaret B. Bailey,2020-06-23 Fundamentals of Engineering Thermodynamics 9th Edition sets the standard for teaching students how to be effective problem solvers Real world applications emphasize the relevance of thermodynamics principles to some of the most critical problems and issues of today including topics related to energy and the environment biomedical bioengineering and emerging technologies      P-Z Library of Congress. Office for Subject Cataloging Policy,1990

*Thermodynamics for Engineers* James Alfred Ewing, 1920      **Thermodynamics** Stephen R. Turns, Laura L. Pauley, 2020-02-27 Fully revised to match the more traditional sequence of course materials this full color second edition presents the basic principles and methods of thermodynamics using a clear and engaging style and a wealth of end of chapter problems It includes five new chapters on topics such as mixtures psychometry chemical equilibrium and combustion and discussion of the Second Law of Thermodynamics has been expanded and divided into two chapters allowing instructors to introduce the topic using either the cycle analysis in Chapter 6 or the definition of entropy in Chapter 7 Online ancillaries including new LMS testbanks a password protected solutions manual prepared PowerPoint lecture slides instructional videos and figures in electronic format are available at [www.cambridge.org/thermo](http://www.cambridge.org/thermo)      **Property Tables and Figures to Accompany Thermodynamics** Yunus A. Çengel, Michael A. Boles, 2011      **Library of Congress Subject Headings: F-O** Library of Congress. Subject Cataloging Division, 1988      Library of Congress Subject Headings Library of Congress. Office for Subject Cataloging Policy, 1990      *Thesaurus of Engineering and Scientific Terms* Engineers Joint Council, 1967

**Library of Congress Subject Headings: P-Z** Library of Congress. Subject Cataloging Division, 1989      **Ice and Refrigeration**, 1924      Practical Chemical Thermodynamics for Geoscientists Bruce Fegley, Rose Osborne, 2013 Presents brief historical summaries and biographies of key thermodynamics scientists alongside the fundamentals they were responsible for

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