

TABLE A-5

Saturated water—Pressure table

Press., <i>P</i> kPa	Sat. temp., <i>T<sub>sat</sub></i> °C	Specific volume, <i>m</i> <sup>3</sup> /kg		Internal energy, kJ/kg			Enthalpy, kJ/kg			Entropy, kJ/kg·K		
		Sat. liquid, <i>v<sub>f</sub></i>	Sat. vapor, <i>v<sub>g</sub></i>	Sat. liquid, <i>u<sub>f</sub></i>	Evap., <i>u<sub>fg</sub></i>	Sat. vapor, <i>u<sub>g</sub></i>	Sat. liquid, <i>h<sub>f</sub></i>	Evap., <i>h<sub>fg</sub></i>	Sat. vapor, <i>h<sub>g</sub></i>	Sat. liquid, <i>s<sub>f</sub></i>	Evap., <i>s<sub>fg</sub></i>	Sat. vapor, <i>s<sub>g</sub></i>
1.0	6.97	0.001000	129.19	29.302	2355.2	2384.5	29.303	2484.4	2513.7	0.1059	8.8690	8.9749
1.5	13.02	0.001001	87.964	54.686	2338.1	2392.8	54.688	2470.1	2524.7	0.1956	8.6314	8.8270
2.0	17.50	0.001001	66.990	73.431	2325.5	2398.9	73.433	2459.5	2532.9	0.2606	8.4621	8.7227
2.5	21.08	0.001002	54.242	88.422	2315.4	2403.8	88.424	2451.0	2539.4	0.3118	8.3302	8.6421
3.0	24.08	0.001003	45.654	100.98	2306.9	2407.9	100.98	2443.9	2544.8	0.3543	8.2222	8.5765
4.0	28.96	0.001004	34.791	121.39	2293.1	2414.5	121.39	2432.3	2553.7	0.4224	8.0510	8.4734
5.0	32.87	0.001005	28.185	137.75	2282.1	2419.8	137.75	2423.0	2560.7	0.4762	7.9176	8.3938
7.5	40.29	0.001008	19.233	168.74	2261.1	2429.8	168.75	2405.3	2574.0	0.5763	7.6738	8.2501
10	45.81	0.001010	14.670	191.79	2245.4	2437.2	191.81	2392.1	2583.9	0.6492	7.4996	8.1488
15	53.97	0.001014	10.020	225.93	2222.1	2448.0	225.94	2372.3	2598.3	0.7549	7.2522	8.0071
20	60.06	0.001017	7.6481	251.40	2204.6	2456.0	251.42	2357.5	2608.9	0.8320	7.0752	7.9073
25	64.96	0.001020	6.2034	271.93	2190.4	2462.4	271.96	2345.5	2617.5	0.8932	6.9370	7.8302
30	69.09	0.001022	5.2287	289.24	2178.5	2467.7	289.27	2335.3	2624.6	0.9441	6.8234	7.7675
40	75.86	0.001026	3.9933	317.58	2158.8	2476.3	317.62	2318.4	2636.1	1.0261	6.6430	7.6691
50	81.32	0.001030	3.2403	340.49	2142.7	2483.2	340.54	2304.7	2645.2	1.0912	6.5019	7.5931
75	91.76	0.001037	2.2172	384.36	2111.8	2496.1	384.44	2278.0	2662.4	1.2132	6.2426	7.4558
100	99.61	0.001043	1.6941	417.40	2088.2	2505.6	417.51	2257.5	2675.0	1.3028	6.0562	7.3589
101.325	99.97	0.001043	1.6734	418.95	2087.0	2506.0	419.06	2256.5	2675.6	1.3069	6.0476	7.3545
125	105.97	0.001048	1.3750	444.23	2068.8	2513.0	444.36	2240.6	2684.9	1.3741	5.9100	7.2841
150	111.35	0.001053	1.1594	466.97	2052.3	2519.2	467.13	2226.0	2693.1	1.4337	5.7894	7.2231
175	116.04	0.001057	1.0037	486.82	2037.7	2524.5	487.01	2213.1	2700.2	1.4850	5.6865	7.1716
200	120.21	0.001061	0.88578	504.50	2024.6	2529.1	504.71	2201.6	2706.3	1.5302	5.5968	7.1270
225	123.97	0.001064	0.79329	520.47	2012.7	2533.2	520.71	2191.0	2711.7	1.5706	5.5171	7.0877
250	127.41	0.001067	0.71873	535.08	2001.8	2536.8	535.35	2181.2	2716.5	1.6072	5.4453	7.0525
275	130.58	0.001070	0.65732	548.57	1991.6	2540.1	548.86	2172.0	2720.9	1.6408	5.3800	7.0207
300	133.52	0.001073	0.60582	561.11	1982.1	2543.2	561.43	2163.5	2724.9	1.6717	5.3200	6.9917
325	136.27	0.001076	0.56199	572.84	1973.1	2545.9	573.19	2155.4	2728.6	1.7005	5.2645	6.9650
350	138.86	0.001079	0.52422	583.89	1964.6	2548.5	584.26	2147.7	2732.0	1.7274	5.2128	6.9402
375	141.30	0.001081	0.49133	594.32	1956.6	2550.9	594.73	2140.4	2735.1	1.7526	5.1645	6.9171
400	143.61	0.001084	0.46242	604.22	1948.9	2553.1	604.66	2133.4	2738.1	1.7765	5.1191	6.8955

# Thermodynamics An Engineering Approach Property Tables

**George Sidebotham**



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This textbook provides an alternative inductive treatment of traditional Engineering Thermodynamics e.g energy and its transformations in engineering systems and introduces the notion of exergy The book begins with energy methods developed in mechanics and transitions to thermodynamics by introducing both 1st and 2nd Laws of Thermodynamics immediately incorporating more advanced concepts using practical applications This methodology continues throughout the text wherein consideration of a specific example leads to general conclusions At the same time the author introduces exergy also called Availability a measure of the potential of a substance to produce useful mechanical work in being brought from its current state to the conditions of the local environment The book facilitates students understanding with workshop problem statements and guided spreadsheet It is appropriate for a sophomore or junior level first course in thermodynamics and is restricted to simple compressible substances with no formal chemical reaction development Mechanical engineering applications are the primary target where several follow up courses would follow fluid mechanics heat transfer and a 2nd thermos course Civil or electrical engineering students could benefit from just this course and chemical engineering programs could develop chemically reacting and non ideal applications in follow up courses

**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

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**Innovations and Applied Research in Mechanical Engineering Technology**, 2002 Fundamentals of Engineering Thermodynamics, SI Version Michael J. Moran, Howard N. Shapiro, 1998-07-07 Presents a comprehensive and rigorous treatment of the subject from the classical perspective to offer a problem solving methodology that encourages systematic thinking Noted for its treatment of the second law this text clearly presents both theory and application The presentation of chemical availability has been extended by a cutting edge discussion of standard chemical availability Design applications and problems have been updated to include economic considerations Environmental topics have also been expanded and updated The new version of Interactive Thermodynamics IT is a powerful windows based software program that now includes equation solver printing graphing data retrieval and simulation capabilities **Properties Tables Booklet for Thermal**

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## **Table of Contents Thermodynamics An Engineering Approach Property Tables**

1. Understanding the eBook Thermodynamics An Engineering Approach Property Tables
  - The Rise of Digital Reading Thermodynamics An Engineering Approach Property Tables
  - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics An Engineering Approach Property Tables
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Thermodynamics An Engineering Approach Property Tables
  - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics An Engineering Approach Property Tables
  - Personalized Recommendations
  - Thermodynamics An Engineering Approach Property Tables User Reviews and Ratings
  - Thermodynamics An Engineering Approach Property Tables and Bestseller Lists
5. Accessing Thermodynamics An Engineering Approach Property Tables Free and Paid eBooks

- Thermodynamics An Engineering Approach Property Tables Public Domain eBooks
  - Thermodynamics An Engineering Approach Property Tables eBook Subscription Services
  - Thermodynamics An Engineering Approach Property Tables Budget-Friendly Options
6. Navigating Thermodynamics An Engineering Approach Property Tables eBook Formats
    - ePub, PDF, MOBI, and More
    - Thermodynamics An Engineering Approach Property Tables Compatibility with Devices
    - Thermodynamics An Engineering Approach Property Tables Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Thermodynamics An Engineering Approach Property Tables
    - Highlighting and Note-Taking Thermodynamics An Engineering Approach Property Tables
    - Interactive Elements Thermodynamics An Engineering Approach Property Tables
  8. Staying Engaged with Thermodynamics An Engineering Approach Property Tables
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Thermodynamics An Engineering Approach Property Tables
  9. Balancing eBooks and Physical Books Thermodynamics An Engineering Approach Property Tables
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Thermodynamics An Engineering Approach Property Tables
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Thermodynamics An Engineering Approach Property Tables
    - Setting Reading Goals Thermodynamics An Engineering Approach Property Tables
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Thermodynamics An Engineering Approach Property Tables
    - Fact-Checking eBook Content of Thermodynamics An Engineering Approach Property Tables
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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