

1. A piston–cylinder device with a set of stops initially contains 0.6 kg of steam at 1.0 MPa and 400°C. The location of the stops corresponds to 40 percent of the initial volume. Now the steam is cooled. Determine the compression work if the final state is (a) 1.0 MPa and 250°C and (b) 500 kPa (c) Also determine the temperature at the final state in part *b*.



2. A frictionless piston–cylinder device contains 5 kg of nitrogen at 100 kPa and 250 K. Nitrogen is now compressed slowly according to the relation $PV^{1.4} = \text{constant}$ until it reaches a final temperature of 450 K. Calculate the work input during this process.



3. 1 kg of water that is initially at 90°C with a quality of 10 percent occupies a spring-loaded piston–cylinder device, such as that in the figure below. This device is now heated until the pressure rises to 800 kPa and the temperature is 250°C. Determine the total work produced during this process, in kJ.

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Jack Philip Holman



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thermodynamics either in mechanical or aerospace engineering or in an engineering science program The book contains a section on the geometry of curves and surfaces in order to review those parts of calculus that are needed in thermodynamics for discussing the thermodynamic equations of state of simple compressible substances and their approximation by linear interpolation It presents the First Law of Thermodynamics as an equation for the time rate of change of system energy the same way that Newton's Law of Motion an equation for the time rate of change of system momentum is presented in Dynamics and presents the Second Law mathematically as a lower bound for the time rate of change of system entropy Moreover this emphasis illustrates the importance of thermodynamics to the study of heat transfer and fluid mechanics These laws and the associated new thermodynamic properties energy and entropy are introduced with extended motivating discussions rather than as abstract postulates and connections are made with kinetic theory Thermodynamic properties of the vaporizable liquids condensible gases needed for the solution of practical thermodynamic problems e.g. water and a typical refrigerant are presented in a unique tabular format that is both simple to understand and easy to use All theoretical discussions throughout the book are accompanied by worked examples illustrating their use in practical devices These examples of the solution of various kinds of thermodynamic problems are all structured in exactly the same way in order to make as a result of the repetition the solution of new problems easier for students to follow and ultimately to produce themselves Many additional problems are provided half of them with answers for students to do on their own Maximizes student understanding of problem solving by creating a single structure to solve all thermodynamic state change problems Presents tables of thermodynamic functions of vaporizable liquids in a unique format that is easy to understand and easy to use Reinforces concepts covered with end of chapter problems Request lecturer material on pub lecturer material

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