



# Steam Tables: Thermodynamic Properties of Water Including Vapor, Liquid, and Solid Phases

By Joseph H. Keenan, Frederick G. Keyes, Philip G. Hill, Joan G. Moore

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**Steam Tables: Thermodynamic Properties of Water Including Vapor, Liquid, and Solid Phases** By Joseph H. Keenan, Frederick G. Keyes, Philip G. Hill, Joan G. Moore

Steam Tables Thermodynamic Properties of Water Including Vapor, Liquid, and Solid Phases —English Units By Joseph H. Keenan, M.I.T.; Frederick G. Keyes, M.I.T.; Philip G. Hill, Queen's University; and Joan G. Moore, M.I.T. During the past decade a substantial body of experimental data on thermodynamic and transport properties of water has been produced and published by research groups in the USSR, Great Britain, Czechoslovakia, Canada and the United States. This book presents the results of a new and independent correlation of all this new thermodynamic data and all previously existing data. It is a new work to replace the well-known and widely used Keenan and Keyes tables. The tables in this new book are based upon a unique accomplishment. For the first time the whole body of high-quality experimental data on liquid and vapor water has been faithfully represented by a single fundamental equation. From this equation all thermodynamic properties can be calculated for any state. This equation is believed to extrapolate dependably in temperature from the upper limit of precise measurement (about 1500°F) to about 2400°F. Because of the increasing importance to both the practicing engineer and the student of a wide variety of problems that cannot be approximated by steady-flow idealization, internal energies are tabulated for all states: saturated liquid and vapor, compressed liquid, and superheated vapor. A reasonable range of metastable states is covered as extensions of the superheated-vapor and compressed-liquid tables. The Mollier and temperature-entropy charts are extended to substantially higher pressures and temperatures. This book also includes a table for ice-vapor equilibrium, an improved chart of isentropic exponents, charts of Prandtl number, a set of charts of heat capacity of liquid and vapor, and extensive tables of viscosity and thermal conductivity reproduced from the documents of the Sixth International Conference on the Properties of Steam. The book features legible type set by a computer-controlled typesetting machine. This results in accuracy, compactness, and convenience.

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## **Editorial Review**

### **From the Publisher**

Presents the results of the authors' independent correlation of all new experimental and all previously existing data on thermodynamic and transport properties of water, replacing the widely used Keenan and Keyes tables. The whole body of high-quality experimental data on liquid and vapor water has been faithfully represented by a single fundamental equation from which all thermodynamic properties can be calculated for any state. Tables are given in SI units. This edition replaces the International Metric Units edition published in 1969.

### **From the Back Cover**

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### **About the Author**

A note about the authors JOSEPH H. KEENAN is Professor of Mechanical Engineering, Emeritus, and Senior Lecturer, Massachusetts Institute of Technology. FREDERICK G. KEYES is Professor of Physical Chemistry, Emeritus, Massachusetts Institute of Technology. PHILIP G. HILL is Professor of Mechanical Engineering, Queen's University, Kingston, Ontario, Canada. JOAN G. MOORE is a scientific programmer on the research staff of the Massachusetts Institute of Technology.

## **Users Review**

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**Amelia Gallup:**

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**Madeline Williams:**

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