Thermophysical Properties of Matter- The TPRC Data Series. Volume 6. Specific Heat - Nonmetallic Liquids and Gases. Y. S. Touloukian 1970 The TPRC Data Series published in 13 volumes plus a Master Index volume constitutes a permanent and valuable contribution to science and technology. This 17,000 page Data Series should form a necessary acquisition to all scientific and technological libraries and laboratories and to the defense industrial establishment. Volume 6 in this 14 volume TPRC Data Series covers nonmetallic substances which are in the fluid state at normal temperature and pressure, including 12 elements (plus two isotopes of hydrogen), 10 inorganic compounds, 32 organic compounds, 82 binary systems, 23 ternary systems, and eight systems with more than three components. For the elements, recommended thermal conductivity values are presented for solid, saturated liquid, saturated vapor, and gaseous states. For the other pure substances, recommended values are presented for saturated liquid and gaseous states for fluid mixtures, graphically smoothed values are given in addition to the original experimental data.

Thermophysical Properties of Matter- The TPRC Data Series. Volume 5. Specific Heat - Nonmetallic Elements and Alloys. Y. S. Touloukian 1970 The data presented in this volume cover 12 elements and 23 alloys, with additional data on graphite and carbon. The data are expressed in the form of charts and graphs, and are followed where possible by tabulated values. The data cover both single component systems and several component systems. The tabulated values can be used as data sources or as raw materials for modeling. The data are presented in the form of tables, graphs, and charts for ready reference.

Thermophysical Properties of Matter- The TPRC Data Series. Volume 4. Specific Heat - Metallic Elements and Alloys. Y. S. Touloukian 1970 The data presented in this volume cover 12 metals and 23 alloys, with additional data on graphite and carbon. The data are expressed in the form of charts and graphs, and are followed where possible by tabulated values. The data cover both single component systems and several component systems. The tabulated values can be used as data sources or as raw materials for modeling. The data are presented in the form of tables, graphs, and charts for ready reference.

Thermophysical Properties of Matter- The TPRC Data Series. Volume 3. Specific Heat - Inorganic Compounds. Y. S. Touloukian 1970 The data presented in this volume cover inorganic compounds, with additional data on graphite and carbon. The data are expressed in the form of charts and graphs, and are followed where possible by tabulated values. The data cover both single component systems and several component systems. The tabulated values can be used as data sources or as raw materials for modeling. The data are presented in the form of tables, graphs, and charts for ready reference.

Thermophysical Properties of Matter- The TPRC Data Series. Volume 2. Specific Heat - Organic Compounds. Y. S. Touloukian 1970 The data presented in this volume cover organic compounds, with additional data on graphite and carbon. The data are expressed in the form of charts and graphs, and are followed where possible by tabulated values. The data cover both single component systems and several component systems. The tabulated values can be used as data sources or as raw materials for modeling. The data are presented in the form of tables, graphs, and charts for ready reference.

Thermophysical Properties of Matter- The TPRC Data Series. Volume 1. Specific Heat - General. Y. S. Touloukian 1970 The data presented in this volume cover an enormous amount of data and information for thermophysical properties on more than 5,000 different materials of interest to researchers in government laboratories and the defense industrial establishment. Volume 1 in this 14 volume TPRC Data Series provides data on the constant-pressure specific heat of nonmetallic elements and compounds which exist in the liquid, gaseous, or vapor state at normal temperature and pressure or at saturated conditions. The data are presented in the form of charts and graphs, and are followed where possible by tabulated values. The data cover both single component systems and several component systems. The tabulated values can be used as data sources or as raw materials for modeling. The data are presented in the form of tables, graphs, and charts for ready reference.

Thermophysical Properties of Matter- The TPRC Data Series. Volume 7. Specific Heat - Nonmetallic Liquids and Gases. Y. S. Touloukian 1975 The data presented in this volume cover nonmetallic elements and compounds which exist in the liquid, gaseous, or vapor state at normal temperature and pressure or at saturated conditions. The data are presented in the form of charts and graphs, and are followed where possible by tabulated values. The data cover both single component systems and several component systems. The tabulated values can be used as data sources or as raw materials for modeling. The data are presented in the form of tables, graphs, and charts for ready reference.

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Thermophysical Properties of Matter- The TPRC Data Series. Volume 4. Specific Heat - Metallic Elements and Alloys. Y. S. Touloukian 1970 The data presented in this volume cover metallic elements and alloys which exist in the solid state at normal temperature and pressure or at saturated conditions. The data are presented in the form of charts and graphs, and are followed where possible by tabulated values. The data cover both single component systems and several component systems. The tabulated values can be used as data sources or as raw materials for modeling. The data are presented in the form of tables, graphs, and charts for ready reference.

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Thermophysical Properties of Matter: Thermal diffusivity, by Y. S. Touloukian and others—Purdue University. Thermophysical Properties Research Center 1970

Thermophysical Properties of Chemicals and Hydrocarbons—Carl L. Yaws 2014-06-20 Compiled by an expert in the field, the book provides an engineer with data they can trust. Spanning gases, liquids, and solids, all critical properties (including viscosity, thermal conductivity, and diffusion coefficient) are covered. From C1 to C100 organics and Ac to Zr inorganics, the data in this handbook is a perfect quick reference for field, lab or classroom usage. By collecting a large - but relevant – amount of information in one source, the handbook enables engineers to spend more time developing new designs and processes, and less time collecting vital properties data. This is not a theoretical treatise, but an aid to the practicing engineer in the field, on day-to-day operations and long range projects. Simplifies research and significantly reduces the amount of time spent collecting properties data. Compiled by an expert in the field, the book provides an engineer with data they can trust in design, research, development and manufacturing. A single, easy reference for critical temperature dependent properties for a wide range of hydrocarbons, including C1 to C100 organics and Ac to Zr inorganics

Thermal conductivity: metallic elements and alloys—Yeram Sarkis Touloukian 2014-05-14 In 1957, the Thermophysical Properties Research that about 100 journals are required to yield fifty percent. But that other fifty percent! It is scattered Center (TPRC) of Purdue University, under the leadership of its founder, Professor Y. S. Touloukian, through more than 3500 journals and other data to develop a coordinated experimental, theoretical, and literature review program covering a set of properties of great importance to science and technology. Over the years, this program has grown. Thus, the man who wants to use existing data, steadily, producing bibliographies, data compilations rather than make new measurements himself, faces a long and costly task if he wants to assure himself from and recommendations, experimental measurements, and other output. The series of volumes for that he has found all the relevant results. More often which these remarks constitute a foreword is one of than not, a search for data stops after one or two these many important products. These volumes are a results are found or after the searcher decides he has spent enough time looking. Now with the monumental accomplishement in themselves, requiring for their production the combined knowledge appearance of these volumes, the scientist or engineer and skills of dozens of dedicated specialists. The who needs these kinds of data can consider himself very fortunate.

Specific Heat—Yeram Sarkis Touloukian 1995-12-31