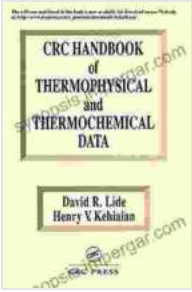
Unlocking the Secrets of Thermal Properties with the CRC Handbook of Thermophysical and Thermochemical Data

In the realm of science and engineering, understanding the thermal properties of materials is paramount. These properties govern the behavior of materials under thermal stress and play a pivotal role in diverse applications, from designing efficient energy systems to developing advanced materials.



CRC Handbook of Thermophysical and Thermochemical Data by David R. Lide

★★★★★ 5 out of 5

Language	: English
File size	: 4098 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Print length	: 482 pages

For decades, the CRC Handbook of Thermophysical and Thermochemical Data has served as an indispensable reference for researchers, engineers, and scientists seeking accurate and comprehensive data on the thermal properties of a vast array of materials.

A Comprehensive Compendium of Thermal Properties

The CRC Handbook of Thermophysical and Thermochemical Data is an extensive compendium of data on the thermophysical and thermochemical

properties of elements, compounds, and mixtures. It covers a wide range of substances, including metals, alloys, polymers, ceramics, gases, and liquids.

The handbook provides a wealth of information on the following properties:

- Thermal conductivity
- Specific heat capacity
- Thermal diffusivity
- Viscosity
- Density
- Enthalpy
- Entropy
- Gibbs free energy
- Phase equilibria

Applications in Diverse Fields

The CRC Handbook of Thermophysical and Thermochemical Data finds applications in a multitude of fields, including:

- **Materials science:** Understanding the thermal properties of materials is essential for materials selection, design, and optimization.
- **Heat transfer:** Accurate data on thermal conductivity and specific heat capacity is crucial for modeling and predicting heat transfer processes.

- **Thermodynamics:** The handbook provides essential data for thermodynamic calculations, such as the determination of enthalpy and entropy changes.
- **Chemical engineering:** Thermal properties play a vital role in chemical reactor design and analysis.
- **Energy systems:** Data on thermal properties is necessary for optimizing energy conversion and storage systems.

Features of the CRC Handbook

The CRC Handbook of Thermophysical and Thermochemical Data offers numerous features that make it an invaluable resource:

- **Comprehensive coverage:** The handbook contains data on over 10,000 substances, providing a comprehensive reference for a wide range of materials.
- **Accurate and reliable data:** The data in the handbook is meticulously compiled from peer-reviewed literature and experimental measurements.
- **Extensive tables and graphs:** Data is presented in clearly organized tables and graphs, making it easy to locate and interpret.
- **Expert contributors:** The handbook is authored by a team of renowned experts in thermophysics and thermochemistry.
- **Regular updates:** The handbook is regularly updated to include the latest data and research findings.

The CRC Handbook of Thermophysical and Thermochemical Data is an essential resource for anyone seeking to gain a deeper understanding of the thermal properties of materials. Its comprehensive coverage, accurate data, and user-friendly format make it an indispensable reference for researchers, engineers, and scientists in a wide range of fields.

Whether you are designing advanced materials, optimizing energy systems, or conducting thermodynamic calculations, the CRC Handbook of Thermophysical and Thermochemical Data is the ultimate source of data to empower your research, design, and engineering endeavors.

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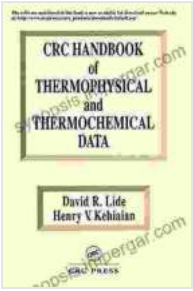

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