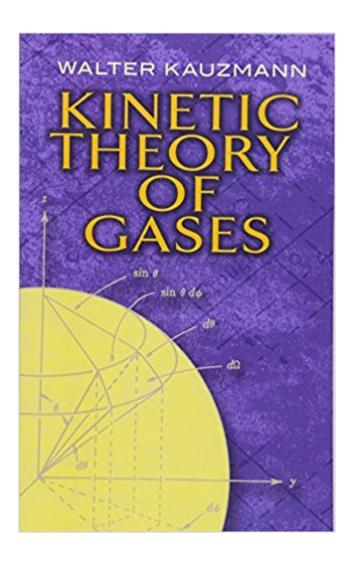


The book was found

Kinetic Theory Of Gases (Dover Books On Chemistry)





Synopsis

Written by a former Princeton University professor specializing in the thermal properties of matter, this monograph and text was designed for first-year students of physical chemistry who require further details of kinetic theory. The treatment focuses chiefly on the molecular basis of important thermodynamic properties of gases, including pressure, temperature, and thermal energy. Extended and often quite elementary presentations of abstract basic concepts offer students the opportunity to grasp the essentials of modern physical chemistry. Thermodynamic and molecular theories of heat are developed side by side, so that thermodynamic theory is constantly illuminated and enhanced by molecular theory. Topics include equations of state of gases and empirical gases, the molecular explanation of the equations of state, and the molecular theory of the thermal energy and heat capacity of a gas. Additional subjects include the distribution of molecular velocities in a gas as well as molecular collisions and the transport properties of gases. Numerous exercises, many of them partially worked out, help students internalize concepts and illustrate practical uses and special applications. End-of-chapter problems offer further reinforcement.

Book Information

Series: Dover Books on Chemistry

Paperback: 272 pages

Publisher: Dover Publications; Reprint edition (May 17, 2012)

Language: English

ISBN-10: 0486488330

ISBN-13: 978-0486488332

Product Dimensions: 5.3 x 0.6 x 8.3 inches

Shipping Weight: 11.4 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #919,882 in Books (See Top 100 in Books) #26 inà Books > Engineering & Transportation > Engineering > Aerospace > Gas Dynamics #310 inà Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry #638 inà Â Books > Science & Math > Physics > Mechanics

Customer Reviews

Elementary but relatively complete, this book treats theory beyond that mentioned in other books such as those by Jeans, Loeb, and Present. Kauzmann's treatment of real gases is particularly useful because there are no perfect gases. He refers to a volume II in this book, which I would also

like to acquire, but if it was ever published I don't know when or under what title. Perhaps a kind reader could inform me of this information.

good

Download to continue reading...

The Mathematical Theory of Non-uniform Gases: An Account of the Kinetic Theory of Viscosity, Thermal Conduction and Diffusion in Gases (Cambridge Mathematical Library) Kinetic Theory of Gases (Dover Books on Chemistry) Thermodynamics and the Kinetic Theory of Gases: Volume 3 of Pauli Lectures on Physics (Dover Books on Physics) Elements of the Kinetic Theory of Gases (The International Encyclopedia of Physical Chemistry and Chemical Physics) Kinetic theory of gases, the: an anthology of classic papers with historical commentary (History of Modern Physical Sciences, 1) Kinetic theory of gases,: With an introduction to statistical mechanics, (International series in physics) Group Theory and Chemistry (Dover Books on Chemistry) Group Theory in Chemistry and Spectroscopy: A Simple Guide to Advanced Usage (Dover Books on Chemistry) Modern Quantum Chemistry: Introduction to Advanced Electronic Structure Theory (Dover Books on Chemistry) Classical Kinetic Theory of Fluids Kinetic Theory and Transport Phenomena (Oxford Master Series in Physics) Thermodynamics, Kinetic Theory, and Statistical Thermodynamics (3rd Edition) Thermal Physics: An Introduction to Thermodynamics, Statistical Mechanics, and Kinetic Theory (Oxford Science Publications) Study Guide: Ace Organic Chemistry I - The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review The interaction of gases with solid surfaces, (The International encyclopedia of physical chemistry and chemical physics. Topic 14: Properties of interfaces) The Molecular Theory of Gases and Liquids READING ORDER: TAMI HOAG: BOOKS LIST OF THE BITTER SEASON, KOVAC/LISKA BOOKS, HENNESSY BOOKS, QUAID HORSES, DOUCET BOOKS, DEER LAKE BOOKS, ELENA ESTES BOOKS, OAK KNOLL BOOKS BY TAMI HOAG What is Organic Chemistry? Chemistry Book 4th Grade | Children's Chemistry Books Symmetry in Chemistry (Dover Books on Chemistry)

Contact Us

DMCA

Privacy