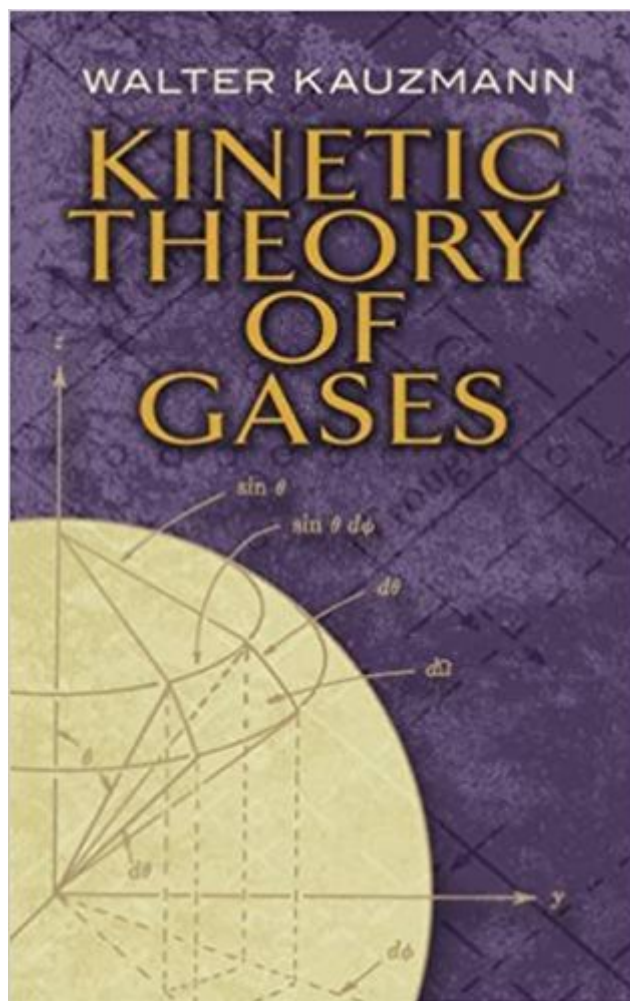


The book was found

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 [See all reviews](#) (2 customer reviews)

Best Sellers Rank: #370,068 in Books (See Top 100 in Books) #12 in [Books > Engineering & Transportation > Engineering > Aerospace > Gas Dynamics](#) #101 in [Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry](#) #235 in [Books > Science & Math > Physics > Mechanics](#)

Customer Reviews

good

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.

[Download to continue reading...](#)

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) An Introduction to the Kinetic Theory of Gases. Kinetic theory of gases,: With an introduction to statistical mechanics, (International series in physics) Surviving Chemistry Workbook: High School Chemistry: 2015 Revision - with NYS Chemistry Reference Tables Statistical Mechanics, Kinetic Theory and Stochastic Process Kinetic Golf: Picture the Game Like Never Before Quantum Mechanics! The How's and Why's of Atoms and Molecules - Chemistry for Kids - Children's Chemistry Books Sterling Test Prep CLEP Chemistry Practice Questions: High Yield CLEP Chemistry Questions Sterling DAT General Chemistry Practice Questions: High Yield DAT General Chemistry Questions MCAT Chemistry and Organic Chemistry: Content Review for the Revised MCAT Principles of Colloid and Surface Chemistry, Third Edition, Revised and Expanded (Undergraduate Chemistry: A Series of Textbooks) Physical Chemistry Plus MasteringChemistry with eText -- Access Card Package (3rd Edition) (Engel Physical Chemistry Series) Clinical Chemistry: Techniques, Principles, Correlations (Bishop, Clinical Chemistry) Chemistry: An Introduction to General, Organic, and Biological Chemistry (12th Edition) Glencoe Physical iScience Modules: Chemistry, Grade 8, Student Edition (GLEN SCI: CHEMISTRY) Kendall / Hunt Chemistry: Discovering Chemistry You Need To Know Scattering Theory: The Quantum Theory of Nonrelativistic Collisions (Dover Books on Engineering) What Is the World Made Of?: All About Solids, Liquids, and Gases (Let's-Read-and-Find-Out Science 2) Solids, Liquids, And Gases (Rookie Read-About Science)

[Dmca](#)