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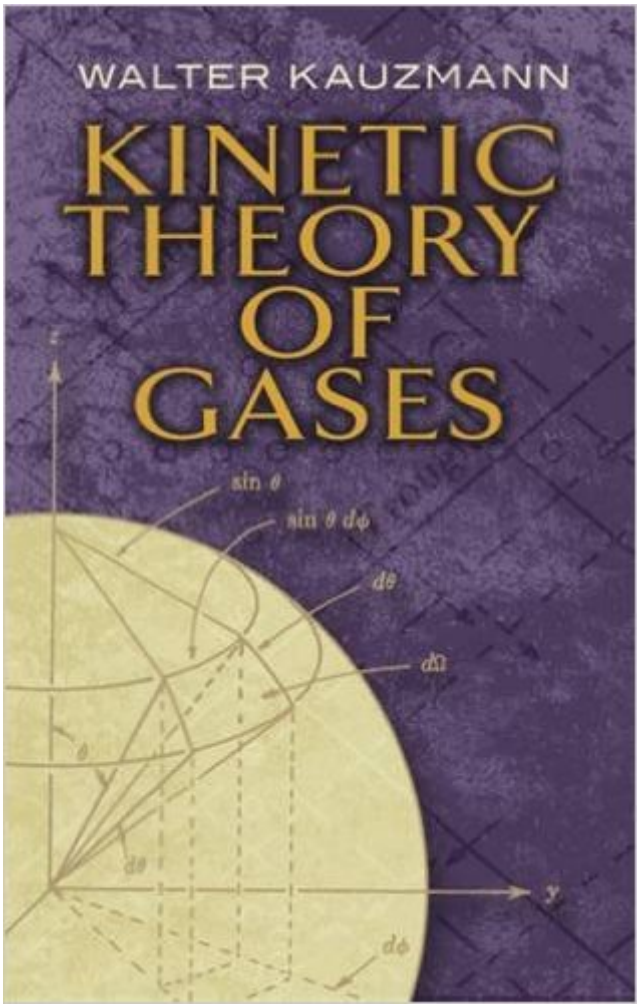
Kinetic Theory Of Gases (Dover Books On Chemistry)



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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

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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.

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