

THE MATHEMATICAL THEORY OF NON-UNIFORM GASES

*An account of the kinetic theory of viscosity, thermal conduction,
and diffusion in gases*

by

SYDNEY CHAPMAN, M.A., D.Sc., F.R.S.

Sedleian Professor of Natural Philosophy, Oxford, and Fellow of the Queen's College

and

T. G. COWLING, M.A., D.Phil., F.R.S.

Professor of Applied Mathematics, Leeds University

Mathematical Theory Of Non Uniform Gases

Lei Shi



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The Mathematical Theory of Non-uniform Gases Sydney Chapman, T. G. Cowling, 1990 This classic book now reissued in paperback presents a detailed account of the mathematical theory of viscosity thermal conduction and diffusion in non uniform gases based on the solution of the Maxwell Boltzmann equations The theory of Chapman and Enskog describing work on dense gases quantum theory of collisions and the theory of conduction and diffusion in ionized gases in the presence of electric and magnetic fields is also included in the later chapters This reprint of the third edition first published in 1970 includes revisions that take account of extensions of the theory to fresh molecular models and of new methods used in

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Kirkpatrick, 2021-06-24 Kinetic theory provides a microscopic description of many observable macroscopic processes and has a wide range of important applications in physics astronomy chemistry and engineering This powerful theoretical framework allows a quantitative treatment of many non equilibrium phenomena such as transport processes in classical and quantum fluids This book describes in detail the Boltzmann equation theory obtained in both traditional and modern ways Applications and generalizations describing non equilibrium processes in a variety of systems are also covered including dilute and moderately dense gases particles in random media hard sphere crystals condensed Bose Einstein gases and granular materials Fluctuation phenomena in non equilibrium fluids and related non analyticities in the hydrodynamic equations are also discussed in some detail A thorough examination of many topics concerning time dependent phenomena in material systems this book describes both current knowledge as well as future directions of the field *Gaskinetic Theory* Tamas I. Gombosi, 1994-06-30 This introduction to the molecular theory of gases and modern transport theory includes such basic concepts as distribution function classical theory of specific heats binary collisions mean free path and reaction rates as well

as topics relevant to advanced transport theory Physical and Chemical Processes in Gas Dynamics physical and Chemical Kinet Ics and Thermodynamics G. G. Chernyi, 2004 **Gas Flows in Microsystems** Lucien Baldas, Stéphane Colin, 2019-10-28

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