

## Molecular Gas Dynamics Theory Techniques And Applications Modeling And Simulation In Science Engineering And Technology

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Molecular dynamics (MD) is a computer simulation method for analyzing the physical movements of atoms and molecules. The atoms and molecules are allowed to interact for a fixed period of time, giving a view of the dynamic "evolution" of the system.

**RGD32**  
MOLECULAR GAS DYNAMICS AND THE DIRECT SIMULATION OF GAS FLOWS G. A. BIRD GAB Consulting Pty Ltd Emeritus Professor, The University of Sydney CLARENDON PRESS • OXFORD

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molecular gas dynamics, or gas dynamics on the basis of kinetic theory. The book provides an up-to-date description of the basic theory of molecular gas dynamics and its various applications giving interesting and important gas dy-namic phenomena. The progress of molecular gas dynamics in the last forty

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Molecular Gas Dynamics originates from lectures and seminars delivered by the author at various universities and institutions worldwide. These materials are supplemented and arranged in a form appropriate to a graduate textbook on molecular gas dynamics, or gas dynamics on the basis of kinetic theory.

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Title: Molecular Gas Dynamics: Theory, Techniques, and Applications: Authors: Sone, Yoshio: Affiliation: AA|Professor Emeritus, Kyoto University, 230-133 Iwakura ...

### Molecular dynamics - Wikipedia

Bird, G. A. 1994 Molecular Gas Dynamics and the Direct Simulation of Gas Flows. Oxford University Press. Bond, M. & Struchtrup, H. 2004 Mean evaporation and condensation coefficients based on energy dependent condensation probability. ... Sone, Y. 2007 Molecular Gas Dynamics: Theory, Techniques, and Applications. Birkhäuser.

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1) Calculate basic gas properties such as temperature, pressure, flow velocity, gas stresses and fluxes from the molecular velocity distribution function. 2) Identify gas flow regimes (continuum, slip, transitional, free molecular) and applicable governing equations. 3) Apply equilibrium fluxes to solve basic free-molecular flow problems.

### MOLECULAR GAS DYNAMICS AND THE DIRECT SIMULATION OF GAS FLOWS

Compressible flow (or gas dynamics) is the branch of fluid mechanics that deals with flows having significant changes in fluid density. While all flows are compressible, flows are usually treated as being incompressible when the Mach number (the ratio of the speed of the flow to the speed of sound) is less than 0.3...

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