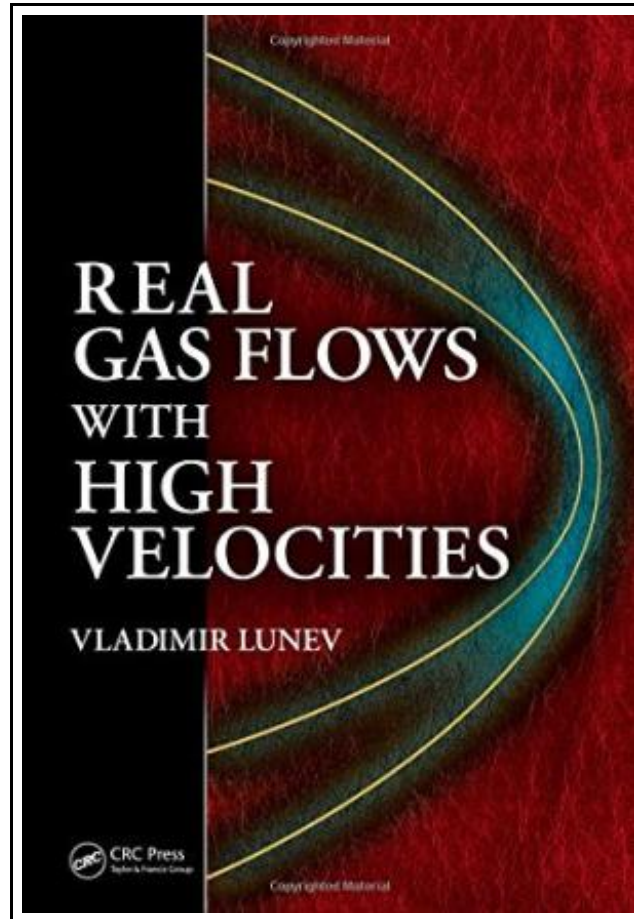


## Real Gas Flows with High Velocities (Hardback)



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- \* Analyzes fundamental challenges associated with super- and subsonic flight
- \* Describes the physical properties of gas mixtures and their associated high-temperature processes from the phenomenological standpoint
- \* Explores use of computational mathematics and equipment to simplify previously unsolvable problems of inviscid and viscous gas dynamics
- \* Explains why numerical methods remain inferior to analytical methods for creating a conceptual understanding of gas dynamic and other physical problems

Avoiding older, cumbersome approximate methods, this reference outlines the general patterns and features of typical flows and how real gas affects them. Referencing simple, analytically treatable examples, similarity laws, and asymptotic analysis, the author omits superfluous explanation of reasoning. This valuable reference summarizes general theory of super- and subsonic flow and uses practical problems to develop a solid understanding of modern real-gas flows and high-velocity gas dynamics.



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