



# Hydrodynamic Limits of the Boltzmann Equation (Lecture Notes in Mathematics)

Laure Saint-Raymond

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The aim of this book is to present some mathematical results describing the transition from kinetic theory, and, more precisely, from the Boltzmann equation for perfect gases to hydrodynamics.

Different fluid asymptotics will be investigated, starting always from solutions of the Boltzmann equation which are only assumed to satisfy the estimates coming from physics, namely some bounds on mass, energy and entropy.



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