If we consider infinite-range intermolecular potentials, then we have fractional powers rather than logarithms.

All the considerations of this section have the important consequence that approximate methods of solution which are not able to allow for a nonanalytic behavior for $Kn \to \infty$ produce poor results for large Knudsen numbers.

## 14. Perturbations of equilibria

The first steady solutions other than Maxwellian to be investigated were perturbations of the latter. The method of perturbation of equilibria is different from the Hilbert method because the small parameter is not contained in the Boltzmann equation but in auxiliary conditions, such as boundary or initial conditions. The advantage of the method is that we can investigate problems in the transition regime, provided differences in temperature and speed are moderate.

Let us try to find a solution of our problem for the Boltzmann equation in the form

$$f = \sum_{n=0}^{\infty} \varepsilon^n f_n. \tag{14.1}$$

where at variance with previous expansions $\varepsilon$ is a parameter which *does not* appear in the Boltzmann equation. In addition $f_0$ is assumed from the start to be a Maxwellian distribution.

By inserting this formal series into Equation (5.1) and matching the various orders in $\varepsilon$, we obtain equations which one can hope to solve recursively:

$$\partial_t f_1 + \xi \cdot \partial_x f_1 = 2Q(f_1, f_0). \tag{14.2$_1$}$$

. . . .

$$\partial_t f_j + \xi \cdot \partial_x f_j = 2Q(f_j, f_0) + \sum_{i=1}^{j-1} Q(f_i, f_{j-i}). \tag{14.2$_j$}$$

. . . ,

where, as in Section 4, $Q(f, g)$ denotes the symmetrized collision operator and the sum is empty for $j = 1$.

Although in principle one can solve the subsequent equations by recursion, in practice one solves only the first equation, which is called the *linearized Boltzmann equation*. This equation can be rewritten as follows:

$$\partial_t h + \xi \cdot \partial_x h = L_M h. \tag{14.3}$$

where $L_M$ denotes the linearized collision operator about the Maxwellian $M$, i.e., $L_M h = 2Q(M, Mh)/M$, $h = f_1/M$ (see Section 10). We shall assume, as is usually done with

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formulations of fluid mechanics and their computer modelling as well as the relationship between experimental and analytical results Scientists engineers and other professionals interested in the latest developments in theoretical and computational fluid mechanics will find the book a useful addition to the literature The book covers a wide range of topics with emphasis on new applications and research currently in progress including Computational Methods in Fluid Mechanics Environmental Fluid Mechanics Experimental Versus Simulation Methods Multiphase Flow Hydraulics and Hydrodynamics Heat and Mass Transfer Industrial Applications Wave Studies Biofluids Fluid Structure Interaction <u>Mathematical Foundation of Turbulent Viscous Flows</u> P. Constantin,Giovanni Gallavotti,Alexandre V. Kazhikhov,Yves Meyer,Seiji Ukai,2006-01-10 Constantin presents the Euler equations of ideal incompressible fluids and the blow up problem for the Navier Stokes equations of viscous fluids describing major mathematical questions of turbulence theory These are connected to the Caffarelli Kohn Nirenberg theory of singularities for the incompressible Navier Stokes equations explained in Gallavotti s lectures Kazhikhov introduces the theory of strong approximation of weak limits via the method of averaging applied to Navier Stokes equations Y Meyer focuses on nonlinear evolution equations and related unexpected cancellation properties either imposed on the initial condition or satisfied by the solution itself localized in space or in time variable Ukai discusses the asymptotic analysis theory of fluid equations the Cauchy Kovalevskaya technique for the Boltzmann Grad limit of the Newtonian equation the multi scale analysis giving compressible and incompressible limits of the Boltzmann equation and the analysis of their initial layers **Incompressible Bipolar and Non-Newtonian Viscous Fluid Flow** Hamid Bellout,Frederick Bloom,2013-11-19 The theory of incompressible multipolar viscous fluids is a non Newtonian model of fluid flow which incorporates nonlinear viscosity as well as higher order velocity gradients and is based on scientific first principles The Navier Stokes model of fluid flow is based on the Stokes hypothesis which a priori simplifies and restricts the relationship between the stress tensor and the velocity By relaxing the constraints of the Stokes hypothesis the mathematical theory of multipolar viscous fluids generalizes the standard Navier Stokes model The rigorous theory of multipolar viscous fluids is compatible with all known thermodynamical processes and the principle of material frame indifference this is in contrast with the formulation of most non Newtonian fluid flow models which result from ad hoc assumptions about the relation between the stress tensor and the velocity The higher order boundary conditions which must be formulated for multipolar viscous flow problems are a rigorous consequence of the principle of virtual work this is in stark contrast to the approach employed by authors who have studied the regularizing effects of adding artificial viscosity in the form of higher order spatial derivatives to the Navier Stokes model A number of research groups primarily in the United States Germany Eastern Europe and China have explored the consequences of multipolar viscous fluid models these efforts and those of the authors which are described in this book have focused on the solution of problems in the context of specific geometries on the existence of weak and classical solutions and on dynamical systems aspects of the theory This volume will be a valuable

resource for mathematicians interested in solutions to systems of nonlinear partial differential equations as well as to applied mathematicians fluid dynamicists and mechanical engineers with an interest in the problems of fluid mechanics

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work representing the most significant advances and current trends in nonlinear PDEs and their applications Topics covered include elliptic and parabolic equations NavierStokes equations and hyperbolic conservation laws Important applications are presented from incompressible and compressible fluid mechanics combustion and electromagnetism Also included are articles on recent advances in statistical reliability in modeling simulation level set methods forimage processing shock waves free boundaries boundary layers errors in numerical solutions stability instability and singular limits The volume is suitable for researchers and graduate students interested in partial differential equations *Fluids Under Pressure* Tomáš Bodnár,Giovanni P. Galdi,Šárka Nečasová,2020-04-30 This contributed volume is based on talks given at the August 2016 summer school Fluids Under Pressure held in Prague as part of the Prague Sum series Written by experts in their respective fields chapters explore the complex role that pressure plays in physics mathematical modeling and fluid flow analysis Specific topics covered include Oceanic and atmospheric dynamics Incompressible flows Viscous compressible flows Well posedness of the Navier Stokes equations Weak solutions to the Navier Stokes equations Fluids Under Pressure will be a valuable resource for graduate students and researchers studying fluid flow dynamics

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