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observation of the
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engineers,
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effect and non-Navier–Stokes effects are demonstrated for typical examples—B é nard and Taylor–Couette problems—in the context of a new framework. A new type of ghost effect is also discussed.

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intended to cover the present status of the mathematical tools used to deal with problems related to slow rarefied flows.

The meaning and usefulness of the subject, and the extent to which it is covered in the book, are discussed in some detail in the

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introduction. In short, I tried to present the basic concepts and the techniques used in probing mathematical questions and problems which arise when studying slow rarefied flows in environmental sciences and

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micromachines. For the book to be up-to-date without being excessively large, it was necessary to omit some topics, which are treated elsewhere, as indicated in the introduction and, whenever the need arises, in the various chapters of

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this volume. Their omission does not alter the aim of the book, to provide an understanding of the essential mathematical tools required to deal with slow rarefied flows and give the background for a study of the original literature. Although I

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have tried to give a rather complete bibliographical coverage, the choice of the topics and of the references certainly reflects a personal bias and I apologize in advance for any omission. I wish to thank Lorenzo Valdettaro,

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Antonella Abb`a,
Silva Lorenzani and
Paolo Barbante for
their help with

pictures and
especially Professor
Ching Shen for his
permission to
reproduce his
pictures on
microchannel flows.

Theory, Techniques,
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Rarefied gas
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This volume is
concerned with
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interactions of
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systems.

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conference that
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principal forum
for the
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dynamics. The
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fundamental
aspects of

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plasmas, and
non-equilibrium
plasma
kinetics.
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the fields of
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vacuum systems,
rarefied jets,
plumes,

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beams, scamjets
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and
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hypersonics,
microflows,
granular gases,
electrical
thrusters are
discussed.
Researchers in
the fields of
mathematics,
physics,

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University of
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16-20, 1984,
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Tsukuba Science
City, Japan
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at
Massachusetts
Institute of
Technology,

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*The report contains
abstracts of 10 major
publications on the
subject of kinetic
theory of gases.*

(Author).

*Thirty-five papers
from the conference
on rarefied gas
dynamics discuss
inelastic collisions,
experimental
techniques, particle*

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and clusters.

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*Proceedings of the
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Nice*

*Proceedings of the
Third International
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Palais de L'Unesco,*

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Paris, in 1962

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**the aeronautic and
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techniques. The
continuous
improvement of the
configurations of
the airplanes and
the space vehicles
aid the constant
enhancement of
their performances
are closely related**

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**with the
development of the
aerodynamics. In
the design of new
flying vehicles the
aerodynamics will
play more and
more important
role. The
undertakings of
aeronautics and
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**country have
gained
achievements of
world interest, the
aerodynamics
community has
made outstanding
contributions for
the development of
these undertakings
and the science of
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the development of
the aerodynamics,
meet the challenge
in the new century,
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contract with
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the period from 1
August 1968 to 31
July 1969. After an
introduction
describing the
essential
mathematical tools**

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**for a theoretical
investigation on the
behavior of
rarefied gases in
the so-called
transition regime,
two main lives of
work are reviewed
in some detail, i.e.
the research for
new methods for
finding**

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**approximate
solutions of the
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book is to present the concepts, methods and applications of kinetic theory to rarefied gas dynamics. After introducing the basic tools, problems in plane geometry are treated using approximation

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techniques
(perturbation and
numerical
methods). These
same techniques
are later used to
deal with two- and
three-dimensional
problems. The
models include not
only monatomic
but also
polyatomic gases,

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mixtures,
Basic Concepts
chemical
To Actual
reactions. A
Calculations
special chapter is
devoted to
evaporation and
condensation
phenomena. Each
section is
accompanied by
problems which
are mainly
intended to

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demonstrate the use of the material in the text and to outline additional subjects, results and equations.

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8-14, 1990,
Aachen, Germany
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