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Laminar to turbulent state has been named after him, the Tollmien–Schlichting waves. Prof.

Schlichting became an emeritus professor on 30 September 1975 at TU

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of inexhaustible
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students of fluid
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engineers alike.

Hermann Schlichting
is one of the
internationally leading
scientists in the field
of th fluid mechanics
during the 20 century.
He contributed largely
to modern theories of

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viscous flows and
aircraft aerodynamics.
His famous
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Theory and
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Aircraft are known
worldwide and they
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languages. He held
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Technische U-
versität Braunschweig
during 37 years and
directed the Institute
of Aerodynamics of
the Deutsche
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also directed the
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Theory of the German
Aerospace Center
(DFVLR). Hermann
Schlichting played a
leading role in the
rebuilding of
aerospace research in
Germany after the
Second World War. th
The occasion of his
100 birthday in the
year 2007 was an
excellent opportunity
to acknowledge

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Important ideas and accomplishments that Hermann Schlichting contributed to science.

The editors of this volume are the present successors of Hermann Schlichting in his role as director of the two research institutes in Braunschweig. We were glad to host a scientific colloquium

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in his honor on 28
September 2007.

Invited former
scholars of Hermann
Schlichting reviewed
his work in boundary
layer theory and in
aircraft aerodynamics
followed by
presentations of
important research
results of his institutes
today.

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This is an advanced
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elementary accounts of turbulence found in undergraduate texts, and the more rigorous monographs on the subject. Throughout, the book combines the maximum of physical insight with the minimum of mathematical detail. Chapters 1 to 5 may be appropriate as background material

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for an advanced undergraduate or introductory postgraduate course on turbulence, while chapters 6 to 10 may be suitable as background material for an advanced postgraduate course on turbulence, or act as a reference source for professional researchers. This

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Theory, two-dimensional turbulence, Magnetohydrodynamics, and turbulence in the core of the Earth

Designed for advanced undergraduate and graduate courses in modern boundary-

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Theory, this frequently cited work offers a self-contained treatment of theories for treating laminar and turbulent boundary layers of reacting gas mixtures. 1962 edition.

The IUTAM
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suggested by the
Gesellschaft für
Angewandte Mathe-
matik (GAMM) and
sponsored by the
International Union of
theoretical and
Applied Mechanics.
The symposium was
organized by H.H.
Fernholz (Hermann-
Föttinger-Institut für
Thermo- und
Fluiddynamik der

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Technischen
Universität Berlin) and
E. Krause
(Aerodynamisches
Institut der RWTH
Aachen). After two
successful Euromech
Colloquia on the
same topic in Berlin
1972 and Trondheim
1975 the organizers
felt that another
meeting should be
convened, this time

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with participants from inside and outside Europe. The aim of the symposium has been to bring together scientists who are actively engaged in boundary layer research, both experimental and theoretical. The scope of the meeting encompass ed incompressible and

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compressible three-dimensional turbulent boundary layers.

Special emphasis was laid on economical calculation methods, on measurements of fluctuating quantities and on measuring techniques designed for and applied successfully to three-dimensional boundary layers. From among

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thirty-four papers submitted for presentation, twenty six contributions of twenty-five minutes each were selected by the European members of the Scientific Committee. Furthermore there were four invited lectures of forty-five minutes. Short discussions were held

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directly after each presentation with a long discussion period at the end of each day. The final discussion on the last day of the symposium was recorded on tape and is presented in a slightly shortened version as the last contribution in this volume.

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