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Some features of a boundary layer transitioning from a 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 Braunschweig. Achievements

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layers, transition and turbulence, and turbulent boundary layers.

A new edition of the almost legendary textbook by Schlichting completely revised by Klaus Gersten is now available. This book presents a comprehensive overview of boundary-layer theory and its application to all areas of fluid mechanics, with emphasis on the flow past bodies (e.g. aircraft aerodynamics). It contains the latest knowledge of the subject based on a thorough review of the literature over the past 15 years. Yet again, it will be an indispensable source of inexhaustible

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information for students of fluid mechanics and engineers alike.

Hermann Schlichting is one of the internationally leading scientists in the field of fluid mechanics during the 20 century. He contributed largely to modern theories of viscous flows and aircraft aerodynamics. His famous monographies Boundary Layer Theory and Aerodynamics of Aircraft are known worldwide and they appeared in six languages. He held Chairs of Aerodynamics and Fluid Mechanics at Technische Universität Braunschweig during 37

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years and directed the Institute of Aerodynamics of the Deutsche Forschungsanstalt für Luftfahrt in Braunschweig. He also directed the Aerodynamische Versuchsanstalt Göttingen and served in the Executive Board 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. The occasion of his 100 birthday in the year 2007 was an excellent opportunity to acknowledge important ideas and accomplishments that Hermann Schlichting contributed to science. The editors of this

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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 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 textbook on the subject of turbulence, and is suitable for engineers, physical scientists and applied mathematicians. The aim of the book is to bridge the gap between the 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 for an advanced undergraduate or introductory postgraduate course on turbulence, while

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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 second edition covers a decade of advancement in the field, streamlining the original content while updating the sections where the subject has moved on. The expanded content includes large-scale dynamics, stratified & rotating turbulence, the increased power of direct numerical simulation, two-dimensional turbulence, Magnetohydrodynamics, and turbulence in the core of the Earth

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Designed for advanced undergraduate and graduate courses in modern boundary-layer 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 Symposium on Three-dimensional Turbulent Boundary Layers was suggested by the Gesellschaft für Angewandte Mathematik

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(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 Fluidodynamik der 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 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,

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both experimental and theoretical. The scope of the meeting encompassed incompressible and 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 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.

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Short discussions were held 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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