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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 U-

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Universität Braunschweig during
37 years and directed the
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He also directed the
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Versuchsanstalt Göttingen
and served in the Executive
Board of the German
Aerospace Center (DFVLR).
Hermann Schlichting played a
leading role in the
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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

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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 in his honor on

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28 September 2007. Invited
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To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended

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problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

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This book is an update and extension of the classic textbook by Ludwig Prandtl, Essentials of Fluid

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The program of research in this book seeks to develop a new mathematical theory, maintaining close links to physics along the way. In return, the theory is applied to physical problems, with more problems

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