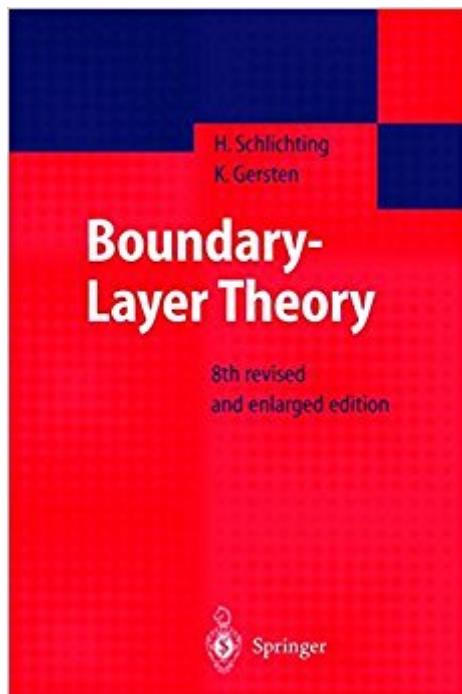


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# Boundary-Layer Theory



## Synopsis

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 information for students of fluid mechanics and engineers alike.

## Book Information

Hardcover: 800 pages

Publisher: Springer; 8th edition (March 22, 2000)

Language: English

ISBN-10: 3540662707

ISBN-13: 978-3540662709

Product Dimensions: 6.1 x 1.8 x 9.2 inches

Shipping Weight: 2.8 pounds

Average Customer Review: 3.9 out of 5 stars 11 customer reviews

Best Sellers Rank: #905,452 in Books (See Top 100 in Books) #77 in Books > Engineering & Transportation > Engineering > Aerospace > Aerodynamics #243 in Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics #313 in Books > Science & Math > Physics > Solid-State Physics

## Customer Reviews

From the reviews: "We find here a book where the theory is developed with rigours in parallel with a strong physical intuition. Comparison with experiments and simulations are always proposed and carefully analysed. The book contains at the end a very rich and complete bibliography | I warmly encourage everyone interested in boundary-layer theory to have this book in his bookcase."

Physicalia " | I do recommend the book highly, especially for its long historical perspective, including all the diagrams comparing theory and experiment that remind us that engineering is practical |" SIAM Reviews

Text: English (translation) Original Language: German

This is a classic and complete book for someone looking to transform their knowledge in Fluid

Mechanics. The first 5 chapters could serve as the textbook for an upper level undergraduate class in Fluid Mechanics. The derivations are insightful and explained very well. Even though the main subject of the book is boundary layers, I found the text to be helpful (even more so than the assigned texts) for general purpose fluid mechanics courses where boundary layers were not the main topic. This book is a great reference and I would suggest it to anyone looking to learn more about fluids.

Difficult to understand, but many in depth topics.

What a classical book! It's huge, it's not digestive for light reading, but what a strong reference for professionals of turbulence!

Amazing text by the original author, revised and updated and delivered in a new, clean package. Great book and THE text for anyone learning about or doing high end research in boundary layers.

Marvelous!

Good value - well worth the money. I also like the updated sections available in the Springer edition.

Must have

It may be the gold-standard in boundary layer theory, but the way this book was written/translated makes it incredibly hard to read. The lack of worked examples also makes grasping some of the concepts difficult.

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