



# **Aerodynamics of Wings and Bodies (Dover Books on Aeronautical Engineering)**

*Holt Ashley, Marten Landahl*

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Amid a welter of topics on the aeronautical engineering curriculum-hypersonic fluid mechanics, heat transfer, nonequilibrium phenomena, etc.-this concise text stands out as a rigorous, classroom-tested treatment of *classical* aerodynamic theory-indispensable background for aeronautical engineers and the foundation of current and future research. The present volume is also unique for its recognition of matched asymptotic expansions as a unifying framework for introducing boundary-value problems of external flow over thin wings and bodies. In addition, the book fully acknowledges the important role of high-speed computers in aerodynamics.

After a short review of the fundamentals of fluid mechanics, the authors offer a fairly extensive treatment of constant-density inviscid flow. Chapter 3 deals with singular perturbation problems, presenting an extremely useful technique not to be found in most texts. Subsequent chapters give solid basic coverage of these topics:

Chap. 4-Effects of Viscosity

Chap. 5-Thin-Wing Theory

Chap. 6-Slender-Body Theory

Chap. 7-Three-Dimensional Wings in Steady, Subsonic Flow

Chap. 8-Three-Dimensional Thin Wings in Steady Supersonic Flow

Chap. 9-Drag at Supersonic Speeds

Chap. 10-Use of Flow-Reversal Theorems in Drag Minimization Problems

Chap. 11-Interference and Nonplanar Lifting Surface theories

Chap. 12-Transonic Small-Disturbance Flow

Chap. 13-Unsteady Flow

Ideal as a primary or supplementary text at the graduate level, *Aerodynamics of Wings and Bodies* also offers working engineers a valuable reference to the results of modern aerodynamic research and a selection of new and useful analytical tools.

Holt Ashley is Professor of Aeronautics/ Astronautics and Mechanical Engineering at Stanford University.

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