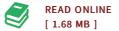


# Aerodynamics of Wings and Bodies

By Holt Ashley, M. T. Landahl

Dover Publications Inc., United States, 1986. Paperback. Book Condition: New. New edition. 214 x 136 mm. Language: English . Brand New Book. 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 theoryindispensable 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-Siender-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...



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