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4 E I. BASIC IDEAS OF WING THEORY: FLOW AROUND AN AIRFOIL density of the air, S (as before) is the area of the airfoil. The introduction of the factor $1/2$, which is done to make apparent the relation of the forces to the impact pressure ($1/2$) (P , is not adopted by all laboratories.

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E. General Aerodynamic Theory-Perfect Fluids TH. VON KARMAN - Director of the Guggenheim Aeronautics Laboratory, California Institute of Technology, Pasadena, Calif., and formerly Director of the Aerodynamic Institute. Aachen, Germany. J. 1.1. BURGERS - Professor of Aero- and Hydrodynamics at the Technische Hoogeschool at Delft, Holland.

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force of drag. As a general rule, it acts parallel to the longitudinal axis. However, this is not always the case, as explained later. Drag is a rearward, retarding force caused by disruption of airflow by the wing, rotor, fuselage, and other protruding objects. Drag opposes thrust and acts rearward parallel to the relative wind.

Chapter 02: Aerodynamics of Flight

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The aerodynamic center, near zero lift coefficient, of the wing without an end plate was located at about $0.14c$ at $M = 0.6$ and moved rearward to about $0.43c$ at $M = 1.18$.

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