



Theoretical Analysis of Stationary Potential Flows and Boundary Layers at High Speed

By K Oswaititsch, K Wieghardt

Bibliogov, United States, 2013. Paperback. Book Condition: New.

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on Demand *****.The present report consists of two parts. The

first part deals with the two-dimensional stationary flow in the

presence of local supersonic zones. A numerical method of

integration of the equation of gas dynamics is developed.

Proceeding from solutions at great distance from the body the

flow pattern is calculated step by step. Accordingly the related

body form is obtained at the end of the calculation. The second

part treats the relationship between the displacement thickness

of laminar and turbulent boundary layers and the pressure

distribution at high speeds. The stability of the boundary layer is

investigated, resulting in basic differences in the behavior of

subsonic and supersonic flows. Lastly, the decisive importance of

the boundary layer for the pressure distribution, particularly for

thin profiles, is demonstrated.



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