



Unsteady Transonic Flow

By Marten T. Landahl

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2009.
 Paperback. Book Condition: New. Reprint. 224 x 152 mm.
 Language: English . Brand New Book ***** Print on Demand
 *****.First published in 1961 this monograph deals with the
 analysis of unsteady lift distributions of thin oscillating wings at
 transonic speeds. Such distributions are needed for the
 prediction of flutter, which tends to occur more frequently at
 speeds near that of sound than in any other speed regime. This
 book emphasises analytical methods that treat the linearised
 problem for simple wing planforms such as rectangular and
 delta wings. There is a thorough discussion of the limitations of
 the validity of linearised theory as well as the proper boundary
 conditions to be applied for the case of flows with shocks.
 Although the standard approach in engineering practice is to
 sense transonic flow calculations with the aid of direct
 numerical simulations on a high-speed computer, the treatment
 in this classic monograph is still of value in the physical insight it
 provides and in the reference exact solutions it supplies for
 simplified cases that may serve as validation cases for
 complicated computer codes. This classic work will be of interest
 to aerodynamicists, fluid dynamicists and applied
 mathematicians.



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