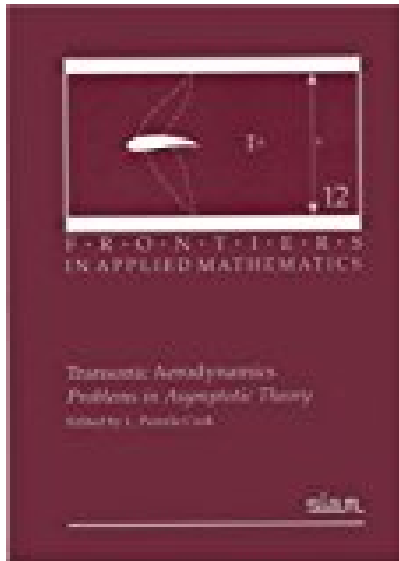


Transonic Aerodynamics Problems in Asymptotic Theory Frontiers in Applied Mathematics



BOOK DETAILS

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- Pages : 100 Pages
- Publisher : Society for Industrial and Applied Mathematics
- Language : English
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BOOK SYNOPSIS

This volume offers exciting results, perspectives, and case studies for the treatment of problems arising in transonic aerodynamics. New advances including triple deck theory, analysis of stagnation at the nose of a body, transonic choked flow, and the transonic area rule are presented. Interest in analyzing the transonic range of flight, its stability properties, and especially the question of designing reduced drag (shockless or weak shock) airfoils keeps growing. Present day commercial aircraft cruise in the transonic range. Mechanical and aeronautical engineers interested in compressible fluid flows, design of optimal wings, and an understanding of transonic flow held about wings and airfoils will find the book invaluable. This book is understandable to those with a knowledge of continuum mechanics (fluids) and asymptotic methods. It is appropriate for graduate courses in aerodynamics and mathematical methods.

TRANSONIC AERODYNAMICS PROBLEMS IN ASYMPTOTIC THEORY

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