

Contents

- ix Preface

- 1 Chapter 1 Introduction and Background: An Overview
L. Pamela Cook and Gilberto Schleiniger

- 8 Chapter 2 Subsonic and Transonic Flows around a Thin
Airfoil with a Parabolic Nose
Z. Rusak

- 29 Chapter 3 An Asymptotic Approach to Separation and
Stability Problems of a Transonic Boundary Layer
Oleg S. Ryzhov

- 54 Chapter 4 Choked Wind-Tunnel Flow: Asymptotics and
Numerics
L. Pamela Cook and Gilberto Schleiniger

- 65 Chapter 5 Some Applications of Combined Asymptotics
and Numerics in Fluid Mechanics and Aerodynamics
N. D. Malmuth

- 89 Index