

AERODYNAMICS E2

Part B: LOW-SPEED AERODYNAMICS

Lifting-Line Theory

Solutions Tutorial Sheet 4

- 1 Assume that an unswept, flat planform wing has an aspect ratio of 8. Using the Lifting-Line Equation, derive the wing planform shape (span-wise distribution of chord) that will result in minimum induced drag.

Given wing parameters:

$$AR = 8, \alpha = \text{const.}$$

Induced-drag coefficient from Lifting-Line Theory is:

$$C_{Di} = \frac{C_L^2}{\pi AR} \left[1 + \sum_{n=2}^{\infty} \frac{n A_n^2}{A_1^2} \right]$$

This will be a minimum when all the Fourier coefficients A_n , apart from A_1 , are zero. Thus:

$$C_{Di} = \frac{C_L^2}{\pi AR}$$

Lifting-Line Equation reduces to:

$$A_1 \sin \phi (\mu + \sin \phi) = \mu \alpha \sin \phi$$

Re-arrange to give:

$$\mu = \frac{\alpha c}{8s} = \left(\frac{A_1}{\alpha - A_1} \right) \sin \phi$$

Change back to linear span-wise coordinate:

$$\cos \phi = -\frac{y}{s} \text{ and so } \sin \phi = \sqrt{1 - (y/s)^2}$$

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Table of Contents Low Speed Aerodynamics Solutions Manual

1. Understanding the eBook Low Speed Aerodynamics Solutions Manual
 - The Rise of Digital Reading Low Speed Aerodynamics Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Low Speed Aerodynamics Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Low Speed Aerodynamics Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Low Speed Aerodynamics Solutions Manual

- Personalized Recommendations
- Low Speed Aerodynamics Solutions Manual User Reviews and Ratings
- Low Speed Aerodynamics Solutions Manual and Bestseller Lists
- 5. Accessing Low Speed Aerodynamics Solutions Manual Free and Paid eBooks
 - Low Speed Aerodynamics Solutions Manual Public Domain eBooks
 - Low Speed Aerodynamics Solutions Manual eBook Subscription Services
 - Low Speed Aerodynamics Solutions Manual Budget-Friendly Options
- 6. Navigating Low Speed Aerodynamics Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Low Speed Aerodynamics Solutions Manual Compatibility with Devices
 - Low Speed Aerodynamics Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Low Speed Aerodynamics Solutions Manual
 - Highlighting and Note-Taking Low Speed Aerodynamics Solutions Manual
 - Interactive Elements Low Speed Aerodynamics Solutions Manual
- 8. Staying Engaged with Low Speed Aerodynamics Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Low Speed Aerodynamics Solutions Manual
- 9. Balancing eBooks and Physical Books Low Speed Aerodynamics Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Low Speed Aerodynamics Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Low Speed Aerodynamics Solutions Manual
 - Setting Reading Goals Low Speed Aerodynamics Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Low Speed Aerodynamics Solutions Manual

- Fact-Checking eBook Content of Low Speed Aerodynamics Solutions Manual
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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