

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:

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

Low Speed Aerodynamics Solutions Manual

Katrin Zwirgmaier



Low Speed Aerodynamics Solutions Manual:

The book delves into Low Speed Aerodynamics Solutions Manual. Low Speed Aerodynamics Solutions Manual is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Low Speed Aerodynamics Solutions Manual, encompassing both the fundamentals and more intricate discussions.

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