

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:

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

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

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

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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