

# Assignment 4 Vortex induced drag analysis of a wing

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## Requirements

- Personal or group task: personal
- Minimum/Maximum number of pages: 10 / 15 (excluding Title page)
- Font size: 10 – 12

## Background

Examining aircraft performance enhancement, it is interesting to explore the optimization possibilities for the aerodynamics and associated structural loading of wings with non-planar configurations. Since Whitcomb's early work, winglets have been employed for decades to enhance the aerodynamic efficiency of aircraft. For a detailed understanding of the aerodynamic principles governing winglets, refer to [1]. In essence, a winglet generates a force, primarily forward due to the normalwash created by the circulation over the wing tip. This forward force acts as thrust, mitigating the induced drag of the aircraft, which constitutes approximately 40% of total drag during cruise and 80–90% during the second climb segment. While adding a winglet may seem appealing for aerodynamic performance, it has implications for the structural weight of the wing.

Consequently, a purely aerodynamic optimization might yield a winglet with an undesirable weight penalty. This additional weight could counteract the positive effects of drag reduction. Thus, designing a non-planar wing involves a complex multidisciplinary optimization process. In this assignment we only concentrate on the aerodynamics of non-planar wings and winglets. The structural aspects, that would change the optimum layout is left to other courses.

# Vortex Assignment

**Erich Hau, Sönke Siegfriedsen**



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**The Vortex Assignment** Alfred Handley,1981-01-01 *Wind Turbines* Erich Hau,Sönke Siegfriedsen,2025-05-12 *Wind Turbines* addresses all those professionally involved in research development manufacture and operation of wind turbines It provides a cross disciplinary overview of modern wind turbine technology and an orientation in the associated technical economic and environmental fields It is based on the author s experience gained over decades designing wind energy converters with a major industrial manufacturer and more recently in technical consulting and in the planning of large wind park installations with special attention to economics For this 4th edition new sections on innovative concepts were added such as flying wind power plants and those connected to large buildings The recent technological progress in energy storage systems and electrical grid integration floating foundations and other offshore applications is documented Moreover patents and intellectual property protection are discussed in the commercial part

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## **Table of Contents Vortex Assignment**

1. Understanding the eBook Vortex Assignment
  - The Rise of Digital Reading Vortex Assignment
  - Advantages of eBooks Over Traditional Books
2. Identifying Vortex Assignment
  - 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 Vortex Assignment
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vortex Assignment
  - Personalized Recommendations
  - Vortex Assignment User Reviews and Ratings
  - Vortex Assignment and Bestseller Lists
5. Accessing Vortex Assignment Free and Paid eBooks
  - Vortex Assignment Public Domain eBooks
  - Vortex Assignment eBook Subscription Services

- Vortex Assignment Budget-Friendly Options
- 6. Navigating Vortex Assignment eBook Formats
  - ePub, PDF, MOBI, and More
  - Vortex Assignment Compatibility with Devices
  - Vortex Assignment Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Vortex Assignment
  - Highlighting and Note-Taking Vortex Assignment
  - Interactive Elements Vortex Assignment
- 8. Staying Engaged with Vortex Assignment
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Vortex Assignment
- 9. Balancing eBooks and Physical Books Vortex Assignment
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Vortex Assignment
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Vortex Assignment
  - Setting Reading Goals Vortex Assignment
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vortex Assignment
  - Fact-Checking eBook Content of Vortex Assignment
  - 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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