

Aerodynamic Study of Boeing 747-400 Airfoil

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Abstract– After a long history of human kind, new means of transportation evolved such as trains, cars, and airplanes. Definitely, after the Second World War, Airplanes became more commonly used for both commercial and military sectors because of its high speed and reliability. For a successful flight, sufficient lift force should be exerted on the airplane body. Thus, the most important thing is the wing cross section; for which the Bernoulli principle is applied “the pressure decreases as the velocity increases and vice versa”. Hence, a computational model was developed to compute the forces exerted on the airfoil such as drag, and lift using SolidWorks and ANSYS-Fluent software.

Keywords– CFD, Boeing 747-400 Airfoil, Lift force, Drag force, Spalart-Allmaras model.

1. INTRODUCTION

The main objective of this paper is a computational fluid dynamic (CFD) study of the flow behavior over BOEING 747-400 airfoil “BACX00” by using SolidWorks and ANSYS-Fluent software.

Computational fluid dynamics (CFD) is a numerical method based on computer programming in which all the governing equations are approximated to find efficient results by averaging them. CFD graphics-interface is a good technique to demonstrate the accurate formation of the behavior that can happen in an experimental wind tunnel setup. CFD results are directly analogous to wind tunnel results obtained in a laboratory. They both represent sets of data for given flow configurations at different Mach numbers, Reynolds numbers, etc. However, unlike a wind tunnel, which is generally a heavy, unreluctant device, a computer program is something you can carry around in your hand. Or better yet, a source program in the memory of a given computer can be accessed remotely by people on terminals that can be thousands of miles away from the computer itself. A computer program is, therefore, a readily transportable tool, a “transportable wind tunnel.” [1].

11. PRESENT MODEL

SolidWorks [2] and ANSYS-Fluent [3] software were used for graphics and computational analysis, respectively.

The Boing airfoil BACX00 has maximum thickness of 11.3% at 35% of chord and maximum chamber of 1.4% at 15% of chord [4]. Figure 1 illustrates the nomenclature of the airfoil. Table 1 shows the nomenclature of airfoil and related properties. The present study was carried out at different

values of the angle of attack (α) equal to 2°, 6°, and 8°. For α equals to 2°, 6°, and 8°, Mach number (M) was taken as 0.24 near ground surface, pressure far-field boundary condition was used with Spalart-Allmaras model as the turbulence model.

Moreover, the present study covers the aerodynamic behavior at 9,000 m with other values of Mach numbers “cruising speed” of 0.65, 0.7, and 0.85 using the same boundary conditions and turbulence model. The chord length of the airfoil, that equals 14.6304 m, was taken at the root of the wing (at the airplane fuselage). Temperature was kept at 288 K.

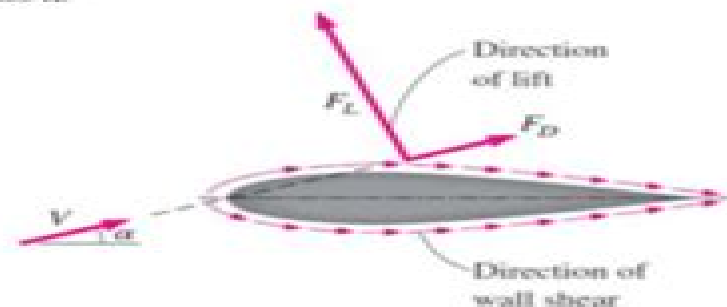


Fig. 1 The nomenclature of the airfoil [5].

Table 1. Nomenclature of airfoil and related properties.

Symbol	Description
α	Angle of attack of the wings [°]
M	MACH number
C_L	Lift coefficient
C_D	Drag coefficient
C_m	Pitching Moment Coefficient
C_p	Pressure coefficient
F_L	Lift force
F_D	Drag force
P_t	Total pressure [Pa]
T_t	Total temperature [K]
V	Cruising speed of the airplane [m/s]
l	Chord length of airfoil cross section [m]
ν	Kinematic viscosity of the air (m ² /s)

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1. Understanding the eBook Boeing 747 400 Study Guides
 - The Rise of Digital Reading Boeing 747 400 Study Guides
 - Advantages of eBooks Over Traditional Books
2. Identifying Boeing 747 400 Study Guides
 - 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 Boeing 747 400 Study Guides
 - User-Friendly Interface
4. Exploring eBook Recommendations from Boeing 747 400 Study Guides
 - Personalized Recommendations
 - Boeing 747 400 Study Guides User Reviews and Ratings
 - Boeing 747 400 Study Guides and Bestseller Lists
5. Accessing Boeing 747 400 Study Guides Free and Paid eBooks
 - Boeing 747 400 Study Guides Public Domain eBooks
 - Boeing 747 400 Study Guides eBook Subscription Services
 - Boeing 747 400 Study Guides Budget-Friendly Options

6. Navigating Boeing 747 400 Study Guides eBook Formats
 - ePub, PDF, MOBI, and More
 - Boeing 747 400 Study Guides Compatibility with Devices
 - Boeing 747 400 Study Guides Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Boeing 747 400 Study Guides
 - Highlighting and Note-Taking Boeing 747 400 Study Guides
 - Interactive Elements Boeing 747 400 Study Guides
8. Staying Engaged with Boeing 747 400 Study Guides
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Boeing 747 400 Study Guides
9. Balancing eBooks and Physical Books Boeing 747 400 Study Guides
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Boeing 747 400 Study Guides
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Boeing 747 400 Study Guides
 - Setting Reading Goals Boeing 747 400 Study Guides
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Boeing 747 400 Study Guides
 - Fact-Checking eBook Content of Boeing 747 400 Study Guides
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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