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Aerodynamics, from Greek  $\text{aero}$  (air) +  $\mu$  (dynamics), is the study of motion of air, particularly when affected by a solid object, such as an airplane wing. It is a sub-field of fluid dynamics and gas dynamics, and many aspects of aerodynamics theory are common to these fields. The term aerodynamics is often used synonymously with gas dynamics, the difference being that ...

### Aerodynamics - Wikipedia

Aerodynamics is a branch of dynamics concerned with the study of the motion of air. It is a sub-field of fluid and gas dynamics, and the term "aerodynamics" is often used when referring to fluid dynamics . Early records of fundamental aerodynamics concepts date back to the work of Aristotle and Archimedes in the 2nd and 3rd centuries BC, but efforts to develop a quantitative theory of air flow ...

### History of aerodynamics - Wikipedia

Aerodynamics means studying how air (or gas) travels around something moving through it. Streamlining to reduce drag in vehicles is a major field in aerodynamics. Aircraft design is another.. The study of gases that are not in motion is called aerostatics.. Aerodynamics comes from Aero (Air), and Dynamics (Moving).. For aircraft, lift (force) is the force pushing up.

### Aerodynamics - Simple English Wikipedia, the free encyclopedia

Automotive aerodynamics is the study of the aerodynamics of road vehicles. Its main goals are reducing drag and wind noise, minimizing noise emission, and preventing undesired lift forces and other causes of aerodynamic instability at high speeds. Air is also considered a fluid in this case. For some classes of racing vehicles, it may also be important to produce downforce to improve traction ...

## Automotive aerodynamics - Wikipedia

Aerodynamics Inc., also known as ADI, was an American charter airline that began offering scheduled services subsidized by the Essential Air Service program in 2016 under a codeshare agreement with Great Lakes Airlines. It was purchased in 2018 by California Pacific Airlines.

## Aerodynamics Inc. - Wikipedia

In fluid dynamics, aerodynamic potential flow codes or panel codes are used to determine the fluid velocity, and subsequently the pressure distribution, on an object. This may be a simple two-dimensional object, such as a circle or wing, or it may be a three-dimensional vehicle. A series of singularities as sources, sinks, vortex points and doublets are used to model the panels and wakes.

## Aerodynamic potential-flow code - Wikipedia

An airfoil where the camber line curves back up near the trailing edge is called a reflexed camber airfoil. Such an airfoil is useful in certain situations, such as with tailless aircraft, because the moment about the aerodynamic center of the airfoil can be 0. A camber line for such an airfoil can be defined as follows (note that the lines over the variables indicates that they have been ...

## Camber (aerodynamics) - Wikipedia

In aerodynamics, aerodynamic drag is the fluid drag force that acts on any moving solid body in the direction of the fluid freestream flow. From the body's perspective (near-field approach), the drag results from forces due to pressure distributions over the body surface, symbolized  $D_p$   $\{ \displaystyle D_{pr} \}$ , and forces due to skin friction ...

## Drag (physics) - Wikipedia

The Whitcomb area rule, also called the transonic area rule, is a design technique used to reduce an aircraft's drag at transonic and supersonic speeds, particularly between Mach 0.75 and 1.2.. This is one of the most important operating speed ranges for commercial and military fixed-wing aircraft today, with transonic acceleration being considered an important performance metric for combat ...

## Area rule - Wikipedia

In physics and engineering, fluid dynamics is a subdiscipline of fluid mechanics that describes the flow of fluids—liquids and gases. It has several subdisciplines, including aerodynamics (the study of air and other gases in motion) and hydrodynamics (the study of liquids in motion). Fluid dynamics has a wide range of applications, including calculating forces and moments on aircraft ...

## Fluid dynamics - Wikipedia

Aerodynamics is the science of air flow over air planes, cars, buildings, and other objects. Aerodynamic principles are used to find the best ways in which airplanes can get lift, reduce drag, and remain stable by controlling the shape and size of the wing, the angle at which it is positioned with respect to the air stream, and the flight speed.

## Aerodynamics | Encyclopedia.com

aerodynamics (uncountable) The science of the dynamics of bodies moving relative to gases , especially the interaction of moving objects with the atmosphere The aerodynamic properties of a particular object (typically a car)

## aerodynamics - Wiktionary

Aerodynamics is a branch of fluid dynamics concerned with the study of gas flows, first analysed by George Cayley in the 1800s. The solution of an aerodynamic problem normally involves calculating for various properties of the flow, such as velocity, pressure, density, and temperature, as a function of space and time.

Understanding the flow pattern makes it possible to calculate or approximate ...

[Aerodynamics - Engineering Wiki | Engineering | Fandom](#)

Note that many topics are often studied as part of courses and books on aerodynamics, but in fact belong more generally to the parent [Category:Fluid dynamics](#).. Such topics (e.g. the generation of lift and drag) can be applied to ship propellers, sailboat keels, steam turbines, rocket engine nozzles, etc, where the fluid is not necessarily air.

[Category:Aerodynamics - Wikimedia Commons](#)

Learners completing this aerodynamics course will gain a fundamental understanding of concepts and models used to aerodynamically analyze and design subsonic, transonic, and supersonic aircraft. While the course is an introduction to aerodynamics, it is an advanced subject typically taken as a third or fourth year undergraduate subject in ...

[Introduction to Aerodynamics | edX](#)

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[Category:Aerodynamics - Wikipedia](#)

This science explains how things fly.

[What Is Aerodynamics? | NASA](#)

[Template:Confusing Automotive aerodynamics](#) is the study of the aerodynamics of road vehicles. Its main goals are reducing drag and wind noise, minimizing noise emission, and preventing undesired lift forces and other causes of aerodynamic instability at high speeds. For some classes of racing vehicles, it may also be important to produce downforce to improve traction and thus cornering ...

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