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aero (air) + δυναμική
(dynamics), is the study of

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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

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term aerodynamics is often used synonymously with gas dynamics, the difference being that ...

Aerodynamics - Wikipedia

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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

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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 -

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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..

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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.

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English Wikipedia, the free
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Automotive aerodynamics is the study of the aerodynamics of road vehicles. Its main goals are reducing drag and wind

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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,

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it may also be important to produce downforce to improve traction ...

Automotive aerodynamics - Wikipedia

Aerodynamics Inc., also known as ADI, was an

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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

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California Pacific Airlines.

Aerodynamics Inc. - Wikipedia

In fluid dynamics,
aerodynamic potential flow
codes or panel codes are
used to determine the fluid

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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

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sources, sinks, vortex points and doublets are used to model the panels and wakes.

Aerodynamic potential-flow code - Wikipedia

An airfoil where the camber

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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

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airfoil can be θ . 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) -

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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

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approach), the drag results from forces due to pressure distributions over the body surface, symbolized D_{pr} , and forces due to skin friction
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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

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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

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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

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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

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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

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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

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positioned with respect to the air stream, and the flight speed.

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aerodynamics (uncountable)
The science of the dynamics

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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)

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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

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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 ...

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Note that many topics are often studied as part of courses and books on aerodynamics, but in fact belong more generally to the

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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

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air.

Category:Aerodynamics - Wikimedia Commons

Learners completing this aerodynamics course will gain a fundamental understanding of concepts

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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

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taken as a third or fourth
year undergraduate subject
in ...

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For some classes of racing vehicles, it may also be important to produce downforce to improve traction and thus cornering
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