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Enter the folding wingtip, already a feature of the in-

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development Boeing 777X. Airbus also is looking at folding wingtips, but a group within the manufacturer is planning to go a step further. If a ...

Airbus X-Plane Will Test Inflight Folding Wingtips

In the months since we flew for the first time, we have learned a great deal about operating a helicopter on Mars. We have explored Ingenuity's strengths and limitations in detail, leveraging the ...

NASA Ingenuity Helicopter: Flying on Mars Is Getting Harder and Harder

Yet, apart from the question

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of potentially enhancing
stealth properties, there is
another key reason why
engineers succeed in
creating more effective and
higher-performing aircraft;
designers ...

The Research Behind Improving Stealth Fighter Capabilities

Monza always requires a
bespoke Formula 1
aerodynamics package to make
the most of its long
straights and high top
speeds by shaving off drag.

How F1 teams adapted to Monza's low-drag characteristics

Narrow is aero, but where's

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the limit? Simon talks to the experts to find out Narrow handlebars for road bikes may finally be getting their moment in the spotlight. Away from steep hills, aerodynamic ...

**How narrow is too narrow?
Simon goes in search of aero
gains with a 26cm handlebar**

His technical interests include: unsteady aerodynamics, vortex dynamics ... Dynamic Stall: When a lifting surface is placed at a sufficiently high angle of attack (AOA), the fluid flow on the low ...

Doug Bohl

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The model has been validated against high-fidelity numerical methods ... to increase power capture in partial load. The large angle of attack variation seen by the blades reduces their aerodynamic ...

Optimization of a floating support structure for a VAWT
wind turbine/farm aerodynamics, wind resources prediction, and fuel cells processes modelling. He has been participating in a number of major research projects sponsored by UK, EU, and industry. He ...

Professor Lin Ma

Motorsport became obsessed

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with aerodynamics in the middle of the ... The wing is mounted to a servo, which varies the angle of attack as the car's pitch changes, as detected by a gyroscope.

Active Aero For A Radio Control Car

Rodriguez-Eguia et al. Symmetry. Trailing edge flaps (TEFs) are high-lift devices that generate changes in the lift and drag coefficients of an airfoil. A large number of 2D simulations are ...

A parametric study of trailing edge flap implementation on three different airfoils through

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an artificial neuronal network

After the engines failed, Greenwald's "exceedance of the airplane's critical angle of attack" – the angle of the wings in relation to the relative wind – resulted in an aerodynamic ...

Wrong fuel blamed in Tampa surgeon's plane crash, NTSB report confirms

From the hull shape, to the dynamic foils, durable sails and advanced systems of 11th Hour Racing's IMOCA 60, every area of this around-the-world machine has been optimized. Now it's up to the sailors ...

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The Making of Mālama, 11th Hour Racing's Ocean Flyer

Though high school physics says that for ... is at the ground and there are many aspects of aerodynamics involved. This makes the optimal angle is ~36 degrees. Also Read |Neeraj Chopra: Boy ...

An expert explains why the javelin flies the way it does

The pilgrimage to the Salt Flats comes in many forms, but for a weekend in mid-September, I joined Jim Knapp in his current pursuit of the 400 mph barrier with his Tom Hanna-built "Knapster 500," a ...

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"Aerodynamics, all of a sudden ... His death at 70, of a heart attack in 1943 in his New Jersey summer home, came while the failure of his bridge and the outbreak of World War II meant it ...

The man blamed for the fall of Tacoma's Galloping Gertie

"I think it's no secret that our car is good in high ... aerodynamic delivery of the car, at the various attitudes – the attitudes being the front ride height, the rear ride height, the yaw ...

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**Why adapting to McLaren's
2021 F1 car has proven
difficult**

Monza always requires a
bespoke Formula 1
aerodynamics package to make
the ... raising the
mainplane higher and
reducing the angle of attack
for the upper element. It
also removed the curvature
...

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