

Re Entry Aerodynamics

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Re-entry vehicles exhibit large geometrical base areas with ... Understanding and estimation of these effects is required for an accurate assessment of the aerodynamic drag, lateral and longitudinal ...

Base-Flow Aerodynamics

SpaceX had a good flight and landing of the SN15 Starship. This

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was a successful high-altitude flight test of Starship serial number 15 (SN15). It was the fifth high-altitude flight test of a Starship ...

SpaceX SN15 Starship Good Flight and Landing

SpaceX's latest crewed spaceship design, the Starship, made its first fully successful test flight on Wednesday. This was the fifth such attempt, the previous four all seeing the rockets concerned ...

SpaceX scores success with fifth test flight of its new Starship spacecraft

SpaceX achieved the feat in the fifth attempt after the previous four Starship prototypes failed to land successfully.

Watch: SpaceX Successfully Completes High-Altitude Flight Test And Landing Of Starship Prototype

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SpaceX is preparing for a pivotal flight test of its Mars-bound Starship rocket. The next-generation spacecraft is set to launch from SpaceX's Starbase facility in Boca Chica, Texas, at some point on ...

SpaceX launch - live: Starship SN15 launches and lands in critical flight over Texas

SpaceX has once again scrubbed the latest major flight test of its Starship rocket. The next-generation spacecraft was set to launch from SpaceX's Starbase facility in Boca Chica, Texas, on Tuesday, ...

SpaceX launch - live: Starship SN15 lift-off scrubbed despite road and airspace closures

Starship serial number 15 (SN15) successfully completed SpaceX's fifth high-altitude flight test of a Starship prototype on Wednesday from Starbase in Texas. Similar to previous high-

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altitude flight ...

WATCH: SpaceX Successfully Lands Starship Test Flight Prototype for the First Time

Work will primarily focus on separation dynamics, resulting stability characteristics, and re-entry and recovery issues ... results to determine efficacy of proposed approaches. Right: Aerodynamics ...

Multi-Fidelity Vehicle Modeling and Simulation

Most of the focus has gone into aerodynamics. The new regulations cut downforce levels by restricting floor size, rear brake ducts and diffuser strakes. At the launch event, Vettel said ...

Aston Martin's new car marks re-entry into F1 after 61 years

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A ceramic warhead would have better in-flight dimensional stability during re-entry compared to ablative warheads. Dimensional stability during flight directly relates to aerodynamic stability and ...

Iraq Survey Group Final Report

American Institute of Aeronautics and Astronautics Posted: Monday, May 3, 2021 The American Institute of Aeronautics and Astronautics (AIAA) is pleased to announce the winners of six of the 2021 ...

AIAA Announces 2021 Regional Student Conference Winners

For safe atmospheric entry, spacecraft need a front end, or shield, that tolerates high heat as well as an aerodynamic shape that generates drag. However, Unlike Earth, the Martian atmosphere is very ...

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PhD student develops spinning heat shield for future spacecraft

It forms the core of the overall Orion spacecraft's Service Module (SM), which includes the CMA and aerodynamic launch ... vehicle until shortly before re-entry, flying a four-hour mission ...

Following ESM arrival at KSC, Orion kicks off...

The finalists have been selected for a first-year program that uses the mind's eye to get more South Texas students interested in becoming future aerospace engineers. UTSA and the Dee Howard ...

Art contest designed to inspire next generation of aerospace leaders

(via SpaceX) On March 3, Starship serial number 10 (SN10) completed SpaceX's third high-altitude flight test of a Starship

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prototype as it successfully ascended, transitioned propellant, and ...

Watch the Amazing Highlight of SpaceX's Starship SN10 Flight

HONOLULU (AP) — A pilot's aggressive takeoff led to an aerodynamic stall, causing the 2019 crash of a skydiving plane in Hawaii that killed all 11 people on board, government safety investigators have ...

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