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New Propulsion System Could Enable Flying at Speeds Up to Mach 17

Scientists in the US have created a chamber to stabilise detonation in a way that could be used to power hypersonic flight in the future. Developed by engineers at the University of Central Florida ...

Hypersonic reaction chamber for mega Mach flight

University of Central Florida researchers are building on their

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technology that could pave the way for hypersonic flight, such as travel from New York to Los Angeles in under 30 minutes.

Flying at up to Mach 16 could become reality with UCF's developing propulsion system

UCF scientists have developed a new propulsion system that entertains flight speeds of up to Mach 17 (13,000 miles per hour) theoretically.

Propulsion System Promises Mach 17 Speeds

On February 1st, 2003 at eighteen seconds past 9:00 AM Eastern Standard Time, the Space Shuttle Columbia broke up during atmospheric entry over ... Cable installed in Flight Deck.

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About entry systems

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Electric Arc Shock Tube (EAST)

We show that shock polars for an ideal non-polytropic gas (thermally but not calorically perfect) have a unique velocity angle

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maximum, the critical shock, assuming a convex equation of state ...

Shock polars for ideal and non-ideal gases

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Chapter 17: The AEDC Hypervelocity Wind Tunnel 9

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Flying at up to Mach 16 could become reality with UCF's developing propulsion system

New technology could bring hypersonic flight ... and supersonic flight that would allow flight through our atmosphere at very high speeds and also allow efficient entry and exit from planetary ...

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