



ID de Contribution: 337

Type: Non spécifié

Lecture STS 1 - Propulsion Systems - from physical basics to actual developments

mardi 19 mai 2026 10:35 (1h 25m)

This presentation covers the basics from fundamentals of thrust generation in propeller drives and gas turbines to current development trends and challenges.

Based on fundamental design principles, the specific advantages and disadvantages of technologies, as well as the limits of what is feasible, will be highlighted and discussed. In addition to the propulsor as a thrust-generating component, the presentation also addresses new energy sources (SAF and LH2) and fuel cell systems. At the same time, important aspects of integrating the propulsion system into the aircraft are addressed. Examples from current research results on the respective topics will be presented and discussed.

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