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Gas Turbine Engines Aviation Rocket

It has a more efficient thermodynamic cycle than currently operated gas turbine engines. The A ... supersonic and hypersonic aircraft, and future-generation rocket and space systems," reported the ...

Rostec Tests Demonstrator Engine for Spaceplanes

There have been some wacky engine designs in the 125 or so years of "modern" internal combustion: rotaries, sleeve valves, various variable-compression engines, all of which made perfect sense to ...

The Most Complex and Powerful Engine of the Postwar Era

and Aviation, the Journal of the Chinese Institute of Engineers and Progress in Astronautics and Aeronautics. He has been a consultant to many US rocket and gas-turbine engine companies as well as ...

Gas Turbine Emissions

Russia's United Engine Corporation (UEC) has completed the first stage of testing a pulse detonation engine, which in the future can be used in advanced rocket and space systems, hypersonic aircraft ...

Russia's UEC Demos Pulse Detonation Engine

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What is a Turbine Engine and Are We Entering The Danger Zone?

"An effective stall warning and avoidance technique is of great value to gas turbine engines used in aviation and land-based applications," said Nicole Key, a professor of mechanical engineering at ...

Purdue innovators develop new stall warning technology for gas turbine engines

In so doing, mention is made of methods that are used in rocket motors ... For purposes of discussion, the turbojet engine... G.1. Introduction. Fuels for aircraft powered with gas turbine engines ...

Design and Performance of Gas Turbine Power Plants

A record-breaking commercial-scale hydrogen plane has taken off in the UK, with more set to join it soon. How far can such planes go in cutting the aviation industry's emissions?

The hydrogen revolution in the skies

Russian powerplant specialist United Engine has carried out initial testing of a pulse-detonation rocket ... technology in aircraft engines using a two-stage fuel combustion and gas-dynamic ...

United Engine tests 'spaceplane' pulse-detonation demonstrator

Rolls-Royce announced construction of its UltraFan engine. The fan is over 11 feet ... Germany." UltraFan is a gas turbine turbofan, meaning it's gas-powered and operates using a traditional ...

The World's Largest Aircraft Engine Is Underway

Early efforts to develop a satisfactory engine included rocket, steam ... Today's Army aircraft are propelled by gas turbine and reciprocating engines. While the technology which led to these ...

BACKGROUND, DEVELOPMENT, AND THEORY

Hydrogen has the potential to enable completely emissions-free flight for most aircraft in the future. MTU Aero Engines has high ... further development of the gas turbine to leverage the full ...

With Hydrogen Into The Future

The 'Emission and Climate Impact of Alternative Fuels' project sees Airbus, Rolls-Royce, German research centre DLR and sustainable aviation fuel (SAF ... us with a unique insight into how gas-turbine ...

Sustainable aviation fuel under microscope in new study

StandardAero was recently selected to serve as an in-country sustainment partner to support GE F414-39E engine maintenance, repair and overhaul (MRO) services proposal for the Saab Gripen fighter in ...

StandardAero Selected as Sustainment Partner for the Saab Gripen for Canada Team

UEC eyes potential future applications for this type of engine in supersonic and hypersonic aircraft. Pulse detonation engines ... efficient thermodynamic cycle than currently operated gas turbine ...

Rostec foresees pulse detonation engine benefits

The future of medium-to-long-haul flight still needs the gas turbine ... by Shell Aviation and delivered by SkyNRG. Fuel deliveries have taken place throughout November and the first engine ...

A New Start - with SAF

The Napier E124 Two-Stroke H-24 Diesel airplane engine was designed in the '30s. The dual horizontally opposed engine displaced 75 liters and had 24 cylinders and a gas turbine. It was ...

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