

Steam Jet Ejector Performance Using Experimental Tests And

In detonative combustion, the flame front expands at supersonic speed. It is theoretically up to 25% more efficient than conventional deflagrative combustion, potentially enabling increased fuel efficiency. 6b438fd089

Rolls-Royce Conway Development started at Rolls-Royce in the 1940s, but the design was used only briefly, in the late 1950s and early 1960s, before other turbofan designs replaced it. 25 Tweed. Rolls-Royce, suggested building a purely experimental bypass design using parts of the Avon and another experimental jet engine, the AJ. The Conway engine was used on versions of the Handley Page Victor, Vickers VC10, Boeing 707-420 and Douglas DC-8-40. 80 Conway was the first turbofan jet engine to enter service. In April 1947 The Rolls-Royce RB 6b438fd089

Pulsejet engines are a lightweight form of jet propulsion, but usually have a poor compression ratio, and hence give a low specific impulse. 6b438fd089

Rotating detonation engine In detonative combustion A rotating detonation engine (RDE) uses a form of pressure gain combustion, where one or more detonations continuously travel around an annular channel. Computational simulations and experimental results have shown that the RDE has potential in transport and other applications. Computational simulations and experimental results have shown that the RDE has potential in transport and other applications 6b438fd089

In most locomotives the steam is admitted alternately to each end of its cylinders in which pistons are mechanically connected to the locomotive's main wheels. Fuel and water supplies are usually carried with the locomotive, either on the locomotive itself or in a tender coupled to it. Variations in this general design include electrically powered boilers, turbines in place of pistons, and using steam generated externally... 6b438fd089 At various times during the 1950s, the 9Fs worked passenger trains with great success, indicating the versatility of the design, sometimes considered to represent the ultimate in British steam development. Several experimental variants were constructed in an effort... 6b438fd089

Double chimney Porta's exhaust designs ultimately evolved into the Lempor ejector. Although the internal openings form two circles, the outside appearance usually forms a single elongated oval. The experimental locomotive was a success, and other A double chimney (or double stack, double smokestack in American English) is a form of chimney for a steam locomotive, where the conventional single opening is duplicated, together with the blastpipe beneath it. steam flow and fuel consumption 6b438fd089

Pulsejet The best known example is the Argus As 109-014 used to propel Nazi Germany's V-1 flying bomb. Hurricane. PETA (Pulse-Ejector-Thrust-Augmentors) article Ramon Casanova's pulsejet American Helicopter XA-5 Flight PULSE JET ENGINE CAN BE USE IN BICYCLE TO RUN A pulsejet engine (or pulse jet) is a type of jet engine in which combustion occurs in pulses. A pulsejet engine can be made with few or no moving parts, and is capable of running statically (that is, it does not need to have air forced into its inlet, typically by forward motion) 6b438fd089

Vought F7U Cutlass 1112 The Vought F7U Cutlass is a United States Navy carrier-based jet fighter and fighter-bomber designed and produced by the aircraft manufacturer Chance Vought. numerous experimental jet fighters in Nazi Germany, contributed to its design with his experience in the development of the Messerschmitt P. It was the first tailless production fighter in the United States as well as the Navy's first jet equipped with swept wings and the first to be designed with afterburners. 1110 and P 6b438fd089

The traditional valved pulsejet has one-way valves through which incoming air passes. When the fuel mix is ignited... 6b438fd089 The two main types of pulsejet engines use resonant combustion and harness the combustion products to form a pulsating exhaust jet that intermittently produces thrust. 6b438fd089 The reason for the He 100 failing to reach production status is mostly unknown. Officially, the Luftwaffe rejected the He 100 to concentrate single-seat fighter development on the Messerschmitt Bf 109. Following the adoption of the Bf 109 and Messerschmitt Bf 110 as the Luftwaffe's standard fighter types, the Ministry of Aviation (the Reichsluftfahrtministerium or RLM) announced a "rationalization" policy that placed fighter development at Messerschmitt... 6b438fd089

British Rail GT3 Hughes in a project that started in the early 1950s. 0. Externally it resembled a steam tender locomotive, but the tender carried kerosene fuel. It followed 18000 and 18100 as gas turbines 1 and 2. The designer said the traditional chassis and mechanical transmission avoided complications with (at the time of its conception) relatively untried technologies for bogies and electrical transmission. outputs were required. Both the locomotive and its fuel tender were vacuum-braked, with vacuum brake ejectors being driven by air pressure bled from the GT3 (Gas Turbine 3) was a prototype mainline gas turbine locomotive built in 1961 by English

Electric at its Vulcan Foundry in Newton-le-Willows to investigate the use of its gas turbines in rail traction applications. P. It was designed by English Electric engineer J 6b438fd089

The name "Conway" is the English spelling of the River Conwy, in Wales, in keeping with Rolls' use of river names for gas turbine engines. 6b438fd089

BR Standard Class 9F Several experimental variants were constructed in an effort to reduce costs and maintenance, although these The British Railways Standard Class 9F 2-10-0 is a class of steam locomotive designed for British Railways by Robert Riddles. The Class 9F was the last in a series of standardised locomotive classes designed for British Railways during the 1950s, and was intended for use on fast, heavy freight trains over long distances. The 9F class was given the nickname of 'Spaceship', due to its size and shape. It was one of the most powerful steam locomotive types ever built for British Railways, and successfully performed its intended duties. represent the ultimate in British steam development 6b438fd089

Steam locomotive Steam locomotives were first developed in the United Kingdom during the early 19th century and used for railway A steam locomotive is a locomotive that provides the force to move itself and other vehicles by means of the expansion of steam. pistons, and using steam generated externally. It is fuelled by burning combustible material (usually coal, oil or, rarely, wood) to heat water in the locomotive's boiler to the point where it becomes gaseous and its volume increases 1,700 times. Functionally, it is a steam engine on wheels 6b438fd089

Disadvantages include instability and noise. 6b438fd089

Vacuum The word is derived from the Latin adjective vacuus (neuter vacuum) meaning "vacant" or "void". of steam turbines. An approximation to such vacuum is a region with a gaseous pressure much less than atmospheric pressure. The typical vacuum maintained in the condenser steam space A vacuum (pl. : vacuums or vacua) is space devoid of matter. A steam jet ejector or liquid ring vacuum pump is used for this purpose. Physicists often discuss ideal test results that would occur in a perfect vacuum, which they sometimes simply call "vacuum" or free space, and use the term partial vacuum to refer to an actual imperfect vacuum as one might have in a laboratory or in space. In engineering and applied physics on the other hand, vacuum refers to any space in which the pressure is considerably lower than atmospheric pressure. The Latin term in vacuo is used to describe an object that is surrounded by a vacuum 6b438fd089

Heinkel He 100 Approximately 19 prototypes and pre-production examples were built. None are known to have survived the war. Although it proved to be one of the fastest fighter aircraft in the world at the time of its development, the design was not ordered into series production. pioneering jet fighter then entering service testing, which would have stood as a record for many years, even against specialist racing machines. Performance would The Heinkel He 100 was a German pre-World War II fighter aircraft design from Heinkel 6b438fd089

The quality of a partial vacuum refers to how... 6b438fd089 The Cutlass was developed from the mid 1940s to early 1950s as Vought's entry in a United States Navy competition. Their design team, which was influenced by design information obtained from Nazi Germany, opted for a tailless configuration paired with low aspect ratio swept wings, which was regarded as a radical departure from traditional aircraft design for the era. Vought's submission was favoured by Navy officials and was declared the winner in 1946. On 29 September... 6b438fd089

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