

turbofan and turbojet engines pdf

The turbofan or fanjet is a type of airbreathing jet engine that is widely used in aircraft propulsion. The word "turbofan" is a portmanteau of "turbine" and "fan": the turbo portion refers to a gas turbine engine which achieves mechanical energy from combustion, and the fan, a ducted fan that uses the mechanical energy from the gas turbine to accelerate air rearwards.

Turbofan - Wikipedia

The turbojet is an airbreathing jet engine, typically used in aircraft. It consists of a gas turbine with a propelling nozzle. The gas turbine has an air inlet, a compressor, a combustion chamber, and a turbine (that drives the compressor). The compressed air from the compressor is heated by the fuel in the combustion chamber and then allowed to expand through the turbine.

Turbojet - Wikipedia

Fig. 3 Dual Spool Turbojet Engine Fig. 3 shows a dual spool turbofan engine. In this engine a turbine wheel is placed behind the primary turbine and is used to drive the first stage compressor.

Turbocharger Turbojet Engines - John-Tom

The escalating use of aircraft in the 21st century demands a thorough understanding of engine propulsion concepts, including the performance of aero engines. Among other critical activities, gas turbines play an extensive role in electric power generation, and marine propulsion for naval vessels and cargo ships.

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Turbojets zijn de eenvoudigste turbinemotoren. In tegenstelling tot een turbofan, komt alle door de compressor aangezogen lucht in de verbrandingskamer terecht. Stuwkracht wordt alleen opgewekt door de hete gassen die van achteren de machine uit worden gestuwd. Turbojets leveren hoge snelheden op, maar ze zijn erg lawaaierig en verbruiken erg veel brandstof.

Turbojet - Wikipedia

Der Turbojet ist die einfachste Form eines Turbostrahltriebwerkes. Er besteht aus einer Gasturbine, bei der ausschließlich der Abgasstrahl als Antrieb genutzt wird. Das Triebwerk hat in der Regel nur eine Welle, durch die Turbine und Verdichter miteinander verbunden sind.

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