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A jet engine is a machine that converts energy-rich, liquid fuel into a powerful pushing force called thrust. The thrust from one or more engines pushes a plane forward, forcing air past its scientifically shaped wings to create an upward force called lift that powers it into the sky.

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This book is intended for those who wish to broaden their knowledge of jet engine technology and associated subjects. It covers turbojet, turboprop and turbofan designs and is applicable to...

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What is a Jet Engine? • A jet engine is a machine designed for the purpose of creating large volumes of high-velocity exhaust gasses. (This sounds simplistic, but it is essentially correct.) • This is done in order to produce the thrust needed to overcome the aerodynamic drag of an airplane.

## **Propulsion (1): Jet Engine Basics**

Klaus Huenecke Jet Engines: Fundamentals of Theory, Design and Operation Wiltshire, UK: Airlife Publishing, 1997 Category: Aerospace Engineering Rating: 4-Stars Much like Huenecke's book on Modern Combat Aircraft Design, Jet Engines provides an illustrated introduction to the principals of jet engine operation, analysis and manufacture, without delving into the detailed mathematics required to ...

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Jet engines power jet aircraft, cruise missiles and unmanned aerial vehicles. In the form of rocket engines they power fireworks, model rocketry, spaceflight, and military missiles. Jet engines have propelled high speed cars, particularly drag racers, with the all-time record held by a rocket car.

## **Jet engine - Wikipedia**

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of the British-designed Whittle aircraft engine. The engine and airframe were both built in 1 year. The first jet aircraft was flown in this country in October 1942. In late 1941 Westinghouse Corporation was awarded a contract to design and build the first all-American GTE. Their engineers designed the first axial-flow compressor and annular

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Jet Engines: Fundamentals of Theory, Design and Operation. by Klaus Hünecke. This is already the second English edition of a book that first appeared in German in 1987 (Flugtriebwerke.Ihre Technik und Funktion, ISBN-13: 978-3879434077). Clearly, the audience for whom Hünecke intended his well-written book—a tall order: from general-interest readers to students and practitioners in the ...

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## » **Jet Engines: Fundamentals of Theory, Design and Operation**

Jet Engines: Fundamentals of Theory, Design and Operation ... In general, jet engines are combustion engines. Airbreathing jet engines typically feature a rotating air compressor powered by a turbine, with the leftover power providing thrust through the propelling nozzle —this process is known as the Brayton thermodynamic cycle.

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For those who wish to broaden their knowledge of jet engine technology and associated subjects. It covers turbojet, turboprop and turbofan designs and is applicable to civilian and military usage. Starting with an overview of the main design types and fundamentals, it goes on to look at topics such as air intakes, compressors, and exhaust systems.

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The engine extracts chemical energy from fuel and converts it to mechanical energy using the gaseous energy of the working fluid (air) to drive the engine and propeller, which, in turn, propel the airplane. THE GAS TURBINE CYCLE

## **FUNDAMENTALS OF GAS TURBINE ENGINES**

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