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## **Jet Propulsion Wikibooks Open Books**

This book intends to provide an introduction to jet propulsion at the undergraduate level. A jet engine is an air-breathing internal combustion engine often used to propel high-speed aircraft. Jet

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engines, like rocket engines, use the reaction principle in that they accelerate a mass in one direction and, from Newton's third law of motion ...

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For a jet engine the specific impulse can be determined from the specific fuel consumption. For

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example an engine that has an SFC of 15mg/N-s will have a specific impulse of 6800s. Current turbofan engines have cruise SFC below 15.

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propulsion had its beginnings in the turbo superchargers devised by Dr. Sanford Moss in 1918. These were used to improve the performance of reciprocating engines at high altitude.

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Jump to search. Jet fuel which is a type of kerosene is the most commonly used fuel. Gas turbines can burn almost any liquid or gas fuel and have been operated on diesel fuels, avgas, methane and hydrogen. Any energy source that can heat the compressed gas can theoretically be used, including nuclear reactors.



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Choked flow [1]. Choked flow is the maximum flow that can pass through a passage for a given initial total conditions. Boundary layer effects further limit the flow through real nozzles.

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Example 1.2: Adiabatic and isobaric processes

Air at standard sea level conditions is compressed to 30 bar adiabatically. (0-3); heated to 1700K at constant pressure (3-4) and then expanded back to 1 bar adiabatically (4-5).

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A turboshaft engine is a form of gas turbine that is optimized to produce shaftpower rather than jet thrust.. In concept, turboshaft engines are very similar to turbojets, with additional turbine expansion to extract heat energy from the exhaust and convert it into output shaft

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power. They are even more similar to turboprops, with only minor differences, and a single engine is often sold in ...

## **Turboshaft - Wikipedia**

The US Navy developed a series of air-to-air missiles under the name of "Gorgon" using different propulsion mechanisms, including ramjet propulsion on

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the Gorgon IV. The ramjet Gorgon IVs, made by Glenn Martin, were tested in 1948 and 1949 at Naval Air Station Point Mugu. The ramjet engine itself was designed at the University of Southern California and manufactured by the Marquardt Aircraft ...

## **Ramjet - Wikipedia**

The standard in aircraft propulsion is the jet engine, basically

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consisting on a gas turbine delivering most of its work through a shaft that drives either a few-large-blade propeller or a many-small-blade ducted fan. Even for the same type of engine (e.g. a gas turbine), different notations are used in ...

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Propulsion as a general outline. It can be a bit basic, but it is written extremely well and works through conceptual design of both civil and military engines

## **Best propulsion textbook? : aerospace**

Rocket Propulsion Elements. 7th ed. Wiley Interscience, 2000. ISBN: 9780471326427.

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[Preview with Google Books] Lecture Notes.

Lecture notes are offered as an aid to students' comprehension of the subject of aerospace propulsion. They are not meant to replace textbooks, a pair of which is strongly suggested for additional reading.

## **Syllabus | Introduction to Propulsion Systems**

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A jet engine is a type of reaction engine discharging a fast-moving jet that generates thrust by jet propulsion. While this broad definition can include rocket, water jet, and hybrid propulsion, the term jet engine typically refers to an airbreathing jet engine such as a turbojet, turbofan, ramjet, or pulse jet. In general, jet engines



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