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Propulsion (1): Jet Engine Basics
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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 ... 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
Turbine aircraft propulsion --History --Engine classification --Turbojet engines --Turboprop engines --Turbofan engines --Low bypass-ratio turbofan engines --High bypass-ratio turbofan engines --Turboshaft engines --Engine station designation --Jet engine fundamentals --Gas charateristics --Engine cycle --Thrust --Basic laws in fluid dynamics --Types of flow --Streamline and streamtube ...

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