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box which generates high voltage so as to create a spark or plasma to ignite gases in gas turbine engines or rocket motors. Turbine engines

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ing a hot exhaust gas which was passed through a nozzle to produce thrust. But unlike the rocket engine which must carry its oxygen for combustion, the turbine engine gets its oxygen from the surrounding air.

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The air turbo-rocket is a form of combined-cycle jet engine. The basic layout includes a gas generator, which produces high pressure gas, that drives a turbine/compressor assembly which compresses atmospheric air into a combustion chamber. This mixture is then combusted before leaving the device through a nozzle and creating thrust. There are many different types of air turbo-rockets.

Air turbo-rocket - Wikipedia

This engine was called a gas turbine engine. We normally call the engine a jet engine. Early jet engines worked much like a rocket engine creating a hot exhaust gas which was passed through a nozzle to produce thrust. But unlike the rocket engine which must carry its oxygen for combustion, the turbine engine gets its oxygen from the surrounding ...

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Piston Engines with integrated propeller coverage; Pump Technologies; and Rocket Propulsion. The rocket propulsion section extends the text's coverage so that both Aerospace and Aeronautical topics can be studied and compared. Numerous updates have been made to reflect the latest advances in turbine engines, fuels, and combustion.

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The term "turbojet" was used to describe any gas turbine engine used in aircraft. As gas turbine technology evolved, these other engine types were developed to take the place of the pure turbojet engine. A turbojet engine was first developed in Germany and England prior to World War II and is the simplest of all jet engines.

Aircraft Gas Turbine Engines Types and Construction

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Gas-turbine engine | Britannica

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Elements of Propulsion: Gas Turbines and Rockets, Second ...

The familiar study of jet aircraft treats jet thrust with a "black box" description which only looks at what goes into the jet engine, air and fuel, and what comes out, exhaust gas and an unbalanced force. This force, called thrust, is the sum of the momentum difference between entry and exit and any unbalanced pressure force between entry and exit, as explained in "Thrust calculation".

Gas turbine engine thrust - Wikipedia

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