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Aircraft flight mechanics - Wikipedia

In flight a powered aircraft can be considered as being acted on by four forces: lift, weight, thrust, and drag. Thrust is the force generated by the engine (whether that engine be a jet engine, a propeller, or -- in exotic cases such as the X-15-- a rocket) and acts in a forward direction for the purpose of overcoming drag. Lift acts perpendicular to the vector representing the aircraft's ...

Rotary engine - Wikipedia

The rotary engine is an early type of internal combustion engine, usually designed with an odd number of cylinders per row in a radial configuration, in which the crankshaft remained stationary in operation, with the entire crankcase and its attached cylinders rotating around it as a unit. Its main application was in aviation, although it also saw use before its primary aviation role, in a few ...

Wankel engine - Wikipedia

The Wankel engine has the advantages of compact design and low weight over the more common internal combustion engine, which uses reciprocating pistons. These advantages give rotary engine applications in a variety of vehicles and devices, including automobiles, motorcycles, racing cars, aircraft, go-karts, jet skis, snowmobiles, chainsaws, and auxiliary power units.

How Rotary Engines Work | HowStuffWorks

29/3/2001 · The RX-7, which went on sale in 1978, was probably the most successful rotary-engine-powered car. But it was preceded by a series of rotary-engine cars, trucks and even buses, starting with the 1967 Cosmo Sport. The last year the RX-7 was sold in the United States was 1995, but the rotary engine is set to make a comeback in the near future.

LiquidPiston's "inside-out" rotary X-Engine wins Army ...

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