

Jet Engine Question Paper Feb 2014

Chapter 1 : Jet Engine Question Paper Feb 2014

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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.

Paper 1 . tuesday 24 may 2016 morning time allowed: 1 hour 30 minutes 0 1 figure 1 shows a jet engine. air enters the engine at . a. and is heated before leaving . b. at a much higher speed. 4 use your answer from question 5.3 to calculate the stopping potential for the photoemissive surface. [1 mark] v

Paper – 3 ct (turbine engine) 21. the function of the nozzle diaphragm in a turbine engine is to - 1. decrease the velocity of exhaust gases 2. center the fuel spray in the combustion chamber 3. swirl and collect and exhaust gases into a single exhaust jet 4. direct the flow of gases to strike the turbine blades at a desired angle

Gas turbines and jet engines 5.1 introduction history records over a century and a half of interest in and work on the gas turbine. however, the history of the gas turbine as a viable energy conversion device began with frank whittle’s patent award on the jet engine in 1930 and his static test of a jet engine in 1937.† e-mail your question to help@stisa † fax your question to the nasa sti this paper reports xps analysis of jet exhaust particulate from a b737, lear, erj, and a300 aircraft a variety of jet engine platforms to compare the chemical composition of the combustion-generated

Chapter 5 jet aircraft engine lubrication systems the increased complexity of aircraft engines has added to the requirements for proper lubrication. jet engines require lubrication to prevent friction from reducing the engines’ efficiency. oil is the lifeblood of the aircraft engine.

Subject: aircraft engine modeling; turbojet engine. all aircraft engines are heat engines, in that they use the thermal energy derived from combustion of fossil fuels to produce mechanical energy in the form of kinetic energy of an exhaust jet. the excess of momentum of the exhaust jet over that of the incoming airflow produces thrust.

Sample question paper the following may be pointed out about the power output of a piston engine and the efficiency of a propeller. (i) the bhp of a piston engine at a given altitude and engine rpm, below in the case of a jet airplane. variation of (r/c) max

Fundamentals of gas turbine engines introduction the gas turbine is an internal combustion engine that uses air as the working fluid. 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.

In this paper, the application of sma actuators for aerospace applications is extended by presenting a novel proof-of-concept active jet engine intake using nitinol shape memory alloy wire actuators. the design of the intake model is described and the dynamic performance is examined by conducting open-loop tests.

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