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explain the principle involved in propulsion of rockets and jet engines derive an expression for the acceleration of the rocket and discuss the factors that affect the acceleration describe the function of a space shuttle

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## **1 1 what it s all about massachusetts institute of technology *Dec 18 2023***

it is used to describe the performance of propulsion systems power generation systems and refrigerators and to describe fluid flow combustion and many other phenomena the focus of thermodynamics in aerospace engineering is on the production of work often in the form of kinetic energy for example in the exhaust of a jet engine or shaft

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the performance of a jet rocket nuclear ion or electric propulsion system can always be analyzed by four fundamental parameters i e pressure temperature density and velocity inside the system

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thermodynamics is a branch of physics which deals with the energy and work of a system it was born in the 19th century as scientists were first discovering how to build and operate steam engines thermodynamics deals only with the large scale response of a system which we can observe and measure in experiments

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propulsion system there are four major components to any full scale rocket the structural system or frame the payload system the guidance system and the propulsion system

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## ***beginner s guide to propulsion nasa Mar 09 2023***

we will discuss four principal propulsion systems the propeller the turbine or jet engine the ramjet and the rocket why are there different types of engines if we think about newton s first law of motion we realize that an airplane propulsion system must serve two purposes

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if you are interested in the principles and applications of jet propulsion and gas turbine engines you may want to check out this pdf file it is a scanned copy of the classic textbook by hill and peterson which covers the mechanics and thermodynamics of propulsion in a comprehensive and rigorous way you will find topics such as cycle analysis component design performance and

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understand the oxidation reactions estimate the flame temperature composition of combustion products c and isp inputs reactants stoichiometry o f pressure temperature of reactants  
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