

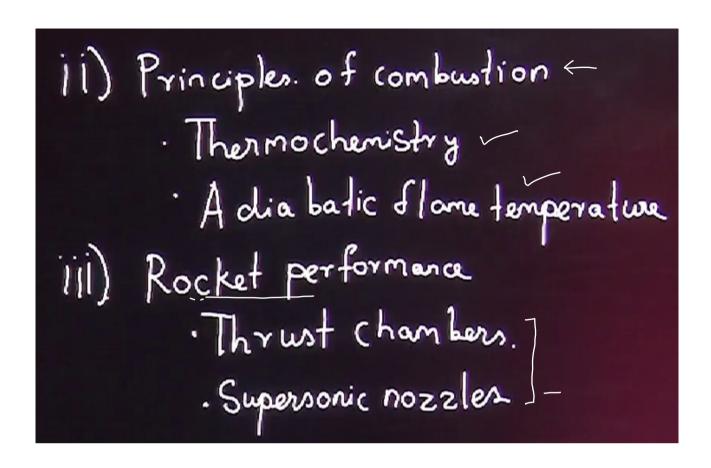
Four chapters

1) Intro to rocket propulsion

Various rocket types

Thrust, Isp...

Single / Multistaging.



IV) Non-chemical rockets

Electrostatic propulsion.

Text book

1. Sutton & Biblarz, Rocket

propulsion elements, John-Wiley

& sons

2) Hill. & Peterson, Mechanics &. Thermodynamics of propulsion Addison-Wesley

Chap 1. Introduction to Rocket

Propulsion:

Jet propulsion

Premuized: Chemical reaction

Premuized: Combustion

Thrust - Combustion

Fuel: + Oxidizer

Aircraft - Air breathing propulsion

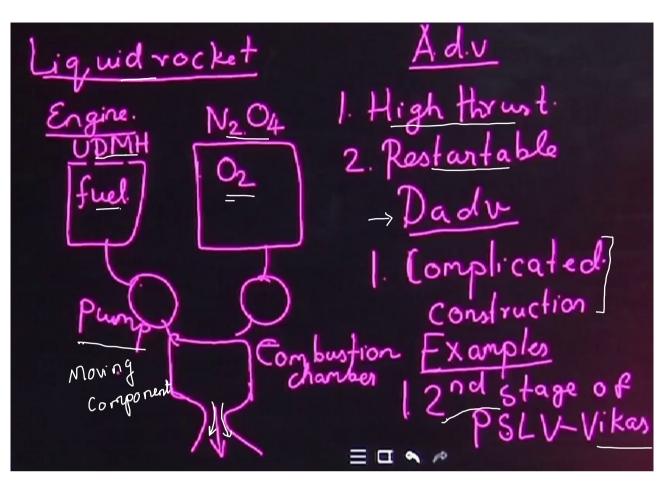
Fuel: 02- atmosphere

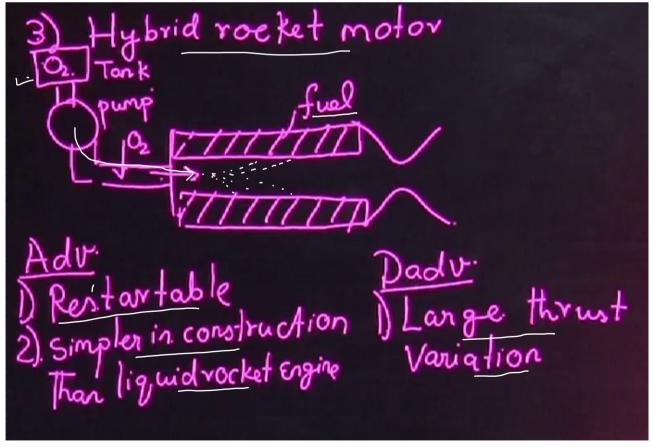
Fuel: † Non-air breathing propulsion

Oxidizer:

Rocket propulsion.

Rocket propulsion. I hree types. Fuel. + Oz Adv Solid rocket Missile Simple. applications - Cylindrical Construction Dadv rolid cylinder 1 Lowthrust. Non-restartable F xamples. 1. First Strapon Stages of PSLV





Please watch the following youtube videos showing the above three kinds of rockets in operation.

Rocket launch: https://www.youtube.com/watch?v=k861w4dDJLo

Solid roket motor (end burning): https://www.youtube.com/watch?v=xvVJQSGHts

https://www.youtube.com/watch?v=30KSt4Iy9Q8

Liquid rocket engine: https://www.youtube.com/watch?v=qiMSko4HBe8
Hybrid rocket motor: https://www.youtube.com/watch?v=TLPWqCMb7DE