



Astronomy Club, IITK

Summer Projects 2021

Space: The Final Frontier

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Week 5

14th – 20th June, 2021

Summary:-

The major hurdle for week 5 is the Midterm Evaluation itself on 19th of Jun. Depending upon the situation we might have or not have lecture on SAT(19th).

The things we want to cover for this week are:

- Propulsion
- Engine Design
 - Types of engines
 - Atomisation

Depending upon the time that is possible there might be a spillover on the next Tuesday(*Sorry* :)).

In Week 5 we will be discussing about the first part of getting the rocket in to space right, i.e. Propulsion system. A propulsion System Consists of many parts Engine and Fuel being the main of them. This week our first lecture will focus over the fuel aspect of this: We will learn about the different types of fuel-

- Solid Fuel
- Liquid Fuel
- Hypergols
- Monoprops

All of these fuels have their respective consideration and all of that has been carefully illustrated here in these [slides](#).

Resources:

- [Basics of propulsion](#)
- [What are various types of rocket fuel](#)
- [Propulsion Dynamics](#)
- [Science of Solid Rocket Boosters](#)
- [SRB\(text\)](#)
- [Liquid Fuel](#)
- [Rocket Pollution](#)
- [Dangerous rocket fuel](#)
- [Hypergolic Fuels](#)
- [Monopropellant](#)

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