

## **46ESS-64: Fuels in Rocket Engines**

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*Rocket propulsion made space travel possible, which in turn led to a lot of engineering and scientific development. From landing on the moon to usage of GPS satellites or peeping into deep space using a high-resolution Hubble telescope, all this was made possible due to rockets. One of the Prime component in Rocket motors is its fuel. Main requirement for Rocket fuel is to have as high specific energy and a reasonable amount of chemical and physical stability. There are various types of fuel sources that are available and can be used but two most prevalent types are solid and liquid. The aim of this paper is to discuss these types of fuels. As each type has specific advantages over the others. We will also discuss some application criteria's that dictate the use specific types of fuels for given application.*