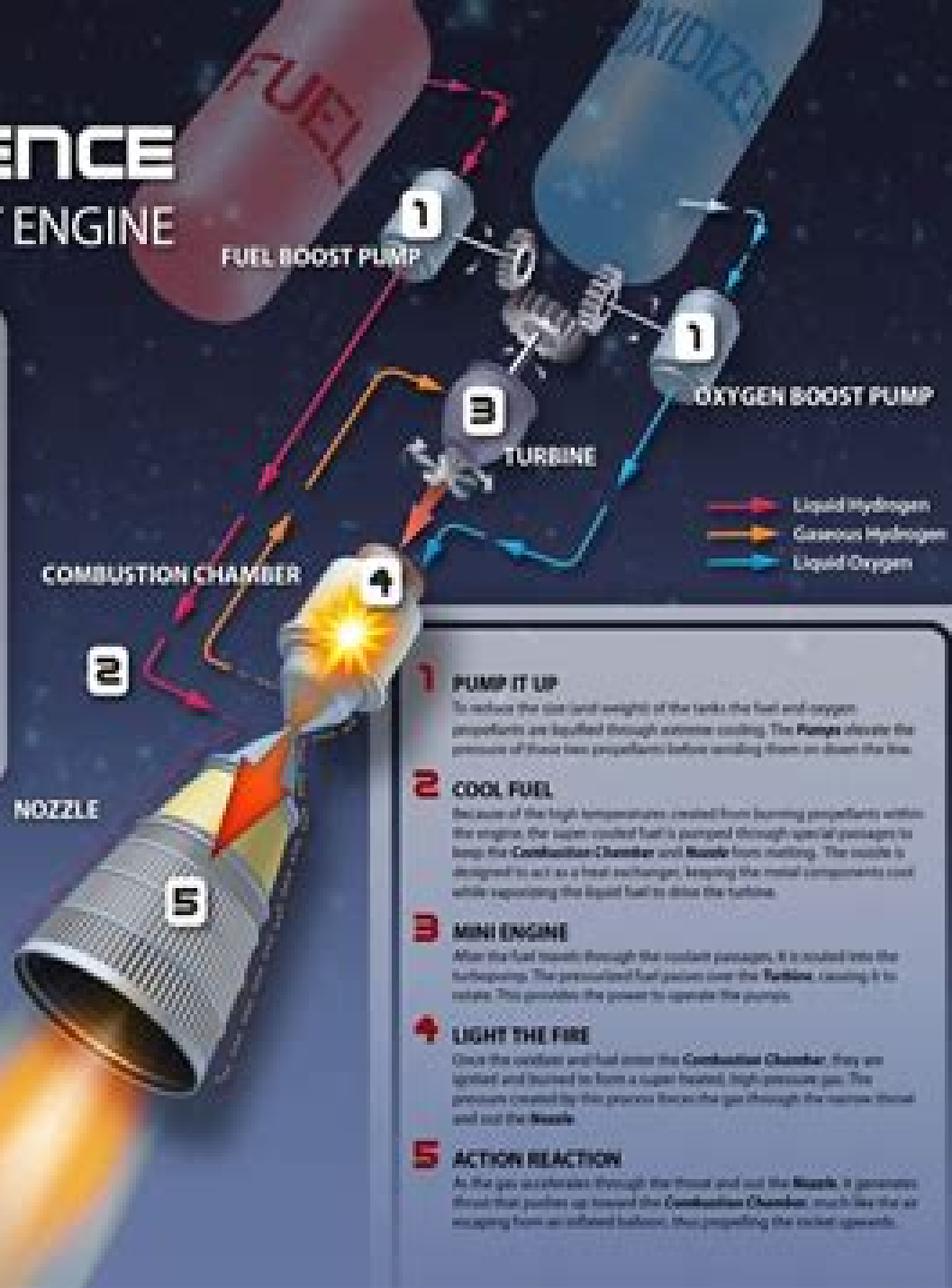


# ROCKET SCIENCE

## THE BASICS OF A ROCKET ENGINE

There are four main components in a simplified *liquid-fuel* rocket engine: the **Pumps**, the **Turbine**, the **Combustion Chamber**, and the **Nozzle**. Each of these play a critical role in creating enough thrust to propel humans and payloads into Earth orbit... and beyond.

"With no air in space, liquid-fueled rockets need to carry both oxidizer (usually oxygen) and fuel (usually hydrogen or kerosene) in specialized tanks. Liquid Hydrogen is the most powerful rocket fuel. The objective of rocket design is to keep the hardware weight as low as possible. Using Liquid Hydrogen allows for a smaller (and lightest) engine."



### 1 PUMP IT UP

To reduce the total weight of the tanks the fuel and oxygen propellants are liquified through extreme cooling. The **Pumps** increase the pressure of these two propellants before sending them on down the line.

### 2 COOL FUEL

Because of the high temperatures created from burning propellants within the engine, the super-cooled fuel is pumped through special passages to keep the **Combustion Chamber** and **Nozzle** from melting. The nozzle is designed to act as a heat exchanger, keeping the metal components cool while expelling the liquid fuel to drive the turbine.

### 3 MINI ENGINE

After the fuel passes through the coolant passages, it is routed into the turbo-pumps. The pressurized fuel passes over the **Turbine**, causing it to rotate. This provides the power to operate the pumps.

### 4 LIGHT THE FIRE

Once the oxidizer and fuel meet in the **Combustion Chamber**, they are ignited and burned to form a super-heated, high-pressure gas. The pressure created by this process forces the gas through the narrow throat and out the **Nozzle**.

### 5 ACTION REACTION

As the gas accelerates through the throat and out the **Nozzle**, it generates thrust that pushes up toward the **Combustion Chamber**, much like the air escaping from an inflated balloon, thus propelling the rocket upwards.

# Introduction To Rocket Science And Engineering

**IM Harris**



## **Introduction To Rocket Science And Engineering:**

## Reviewing **Introduction To Rocket Science And Engineering**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Introduction To Rocket Science And Engineering**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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