

Estes Industries Technical Report TR-2

MULTI-STAGING

by Vernon Estes

This report was prepared as a service to the members of the National Rocket Association, Inc., 1001 N. 1st St., Phoenix, Arizona. Copyright 1964 by Estes Industries, Inc.

Multi-staging, as one of the most important design considerations in rocket motors, has been the subject of many studies and reports. The purpose of this report is to present a summary of the principles and techniques involved in the design of multi-stage rockets, and to provide a basis for the design of such rockets.

The first stage of a multi-stage rocket is the stage which provides the initial thrust. The primary function of this stage is to accelerate the rocket to a velocity which will enable it to overcome the forces of gravity and atmospheric drag. The second stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude. The third stage is the stage which provides the thrust which will enable the rocket to reach the desired velocity. The fourth stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude and velocity.

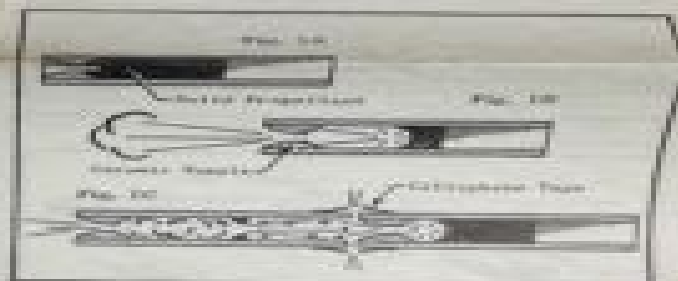
The design of a multi-stage rocket is a complex task. It requires a knowledge of the principles of rocket propulsion, and a knowledge of the principles of structural design. It also requires a knowledge of the principles of aerodynamics, and a knowledge of the principles of control systems.

INTRODUCTION

The purpose of this report is to provide a summary of the principles and techniques involved in the design of multi-stage rockets, and to provide a basis for the design of such rockets. The report is divided into two main parts. The first part is a discussion of the principles of rocket propulsion, and the second part is a discussion of the principles of structural design.

In Figure 1, the principle of multi-staging is shown. The rocket is divided into four stages. The first stage is the stage which provides the initial thrust. The second stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude. The third stage is the stage which provides the thrust which will enable the rocket to reach the desired velocity. The fourth stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude and velocity.

The design of a multi-stage rocket is a complex task. It requires a knowledge of the principles of rocket propulsion, and a knowledge of the principles of structural design. It also requires a knowledge of the principles of aerodynamics, and a knowledge of the principles of control systems.



Multi-staging is a technique used in rocket propulsion to increase the altitude and velocity of a rocket. It involves dividing the rocket into four stages. The first stage is the stage which provides the initial thrust. The second stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude. The third stage is the stage which provides the thrust which will enable the rocket to reach the desired velocity. The fourth stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude and velocity.

The design of a multi-stage rocket is a complex task. It requires a knowledge of the principles of rocket propulsion, and a knowledge of the principles of structural design. It also requires a knowledge of the principles of aerodynamics, and a knowledge of the principles of control systems.

In Figure 1, the principle of multi-staging is shown. The rocket is divided into four stages. The first stage is the stage which provides the initial thrust. The second stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude. The third stage is the stage which provides the thrust which will enable the rocket to reach the desired velocity. The fourth stage is the stage which provides the thrust which will enable the rocket to reach the desired altitude and velocity.

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web arrange the colors in the absorption spectrum of chlorophyll in order of their visibility put the most visible color first green yellow orange red violet blue 9 12 below is a bar graph of the percentage of light energy reflected by chlorophyll it was derived from the chlorophyll absorption spectrum

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web of blue and red light of the split spectrum a first action spectrum of photosynthesis was thus described it resembles roughly the absorption spectra of chlorophyll a and b discussed in section 13 4 by the middle of the nineteenth century the key features of plant photosynthesis were known namely that plants could use light energy

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light as energy of the photon increases the wavelength decreases and vice versa relate the chlorophyll absorption spectra to the photosynthetic action spectrum

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