

## APPLIED PROJECT



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## ROCKET SCIENCE

Many rockets, such as the *Pegasus XL* currently used to launch satellites and the *Soyuz V* that first put men on the moon, are designed to use three stages in their ascent into space. A large first stage initially propels the rocket until its fuel is exhausted, at which point the stage is jettisoned to reduce the mass of the rocket. The smaller second and third stages function similarly in order to place the rocket's payload into orbit about the earth. (With this design, at least two stages are required in order to reach the necessary velocities, and using three stages has proven to be a good compromise between cost and performance.) Our goal here is to determine the individual masses of the three stages, which are to be designed to minimize the total mass of the rocket while enabling it to reach a desired velocity.

For a single-stage rocket consuming fuel at a constant rate, the change in velocity resulting from the acceleration of the rocket vehicle has been modeled by

$$\Delta v = -c \ln\left(1 - \frac{(1-S)M_e}{P + M_e}\right)$$

where  $M_e$  is the mass of the rocket engine including initial fuel,  $P$  is the mass of the payload,  $S$  is a structural factor determined by the design of the rocket (specifically, it is the ratio of the mass of the rocket without fuel to the total mass of the rocket with payload), and  $c$  is the (constant) speed of exhaust relative to the rocket.

Now consider a rocket with three stages and a payload of mass  $A$ . Assume that outside forces are negligible and that  $c$  and  $S$  remains constant for each stage. If  $M_i$  is the mass of the  $i$ th stage, we can initially consider the rocket engine to have mass  $M_i$  and its payload to have mass  $M_i + M_i + A$ ; the second and third stages can be handled similarly.

1. Show that the velocity attained after all three stages have been jettisoned is given by

$$v_f = c \left[ \ln\left(\frac{M_1 + M_2 + M_3 + A}{SM_1 + M_2 + M_3 + A}\right) + \ln\left(\frac{M_2 + M_3 + A}{SM_2 + M_3 + A}\right) + \ln\left(\frac{M_3 + A}{SM_3 + A}\right) \right]$$

2. We wish to minimize the total mass  $M = M_1 + M_2 + M_3$  of the rocket engine subject to the constraint that the desired velocity  $v_f$  from Problem 1 is attained. The method of Lagrange multipliers is appropriate here, but difficult to implement using the current expressions. To simplify, we define variables  $N_i$  so that the constraint equation may be expressed as  $v_f = c(\ln N_1 + \ln N_2 + \ln N_3)$ . Since  $M$  is now difficult to express in terms of the  $N_i$ 's, we wish to use a simpler function that will be minimized at the same place as  $M$ . Show that

$$\begin{aligned} \frac{M_1 + M_2 + M_3 + A}{M_2 + M_3 + A} &= \frac{(1-S)N_1}{1-SN_1} \\ \frac{M_2 + M_3 + A}{M_3 + A} &= \frac{(1-S)N_2}{1-SN_2} \\ \frac{M_3 + A}{A} &= \frac{(1-S)N_3}{1-SN_3} \end{aligned}$$

and conclude that

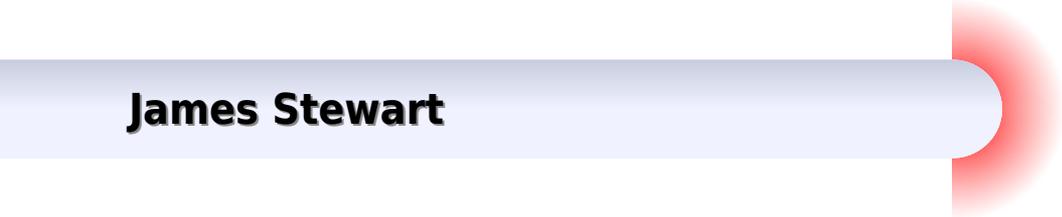
$$\frac{M + A}{A} = \frac{(1-S)^3 N_1 N_2 N_3}{(1-SN_1)(1-SN_2)(1-SN_3)}$$

3. Verify that  $\ln((M + A)/A)$  is minimized at the same location as  $M$ ; use Lagrange multipliers and the results of Problem 2 to find expressions for the values of  $N_i$  where the minimum occurs subject to the constraint  $v_f = c(\ln N_1 + \ln N_2 + \ln N_3)$ . [After: Use properties of logarithms to help simplify the expressions.]

4. Find an expression for the minimum value of  $M$  as a function of  $v_f$ .
5. If we want to put a three-stage rocket into orbit 100 miles above the earth's surface, a final velocity of approximately 17,500 mi/h is required. Suppose that each stage is built with a structural factor  $S = 0.2$  and an exhaust speed of  $c = 6000$  mi/h.
  - (a) Find the minimum total mass  $M$  of the rocket engines as a function of  $A$ .
  - (b) Find the mass of each individual stage as a function of  $A$ . (They are not equally sized!)
6. The same rocket would require a final velocity of approximately 24,700 mi/h in order to escape earth's gravity. Find the mass of each individual stage that would minimize the total mass of the rocket engines and allow the rocket to propel a 500-pound probe into deep space.

# Stewart Calculus Rocket Science Applied Project Solutions

**James Stewart**



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