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### **Launch Vehicle Recovery And Reuse**

IV. Value of Launch Vehicle Elements and Cost of Recovery A logical first step in order to decide what to recover for reuse is to understand the relative value of different launch vehicle stages or components that are candidate for recovery and reuse. Figure 5 shows a breakdown of the relative cost of the Atlas 401 launch vehicle by major element.

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## **Launch Vehicle Recovery and Reuse**

During the first three years of operation, 24 commercial satellites were launched. The stated goal of recovery and reuse is the economic gain off it is not seriously documented. The over costs ...

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## **Launch Vehicle Recovery and Reuse | AIAA SPACE Forum**

Reusing the stage of a small launch vehicle is a complex challenge, as there's little mass margin to dedicate to recovery systems. For a long time, Rocket Lab said the firm wouldn't pursue reusability for this very reason; however, Rocket Lab has

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been able to develop the technology that could make recovery feasible for Electron.

### **Rocket Lab Working on Recovery and Reuse of Their Electron ...**

Launch Vehicle Recovery and Reuse. Mohamed Ragab and F. McNeil Cheatwood; Mohamed Ragab. United Launch Alliance. Search for more papers by this author

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### **Performance Efficient Launch Vehicle Recovery and Reuse ...**

In 2015, United Launch Alliance (ULA) announced its Sensible,  
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Modular, Autonomous Return Technology (SMART) reuse plan for recovery of the booster module for its new Vulcan launch vehicle. That plan employs a non-propulsive approach where atmospheric entry, descent and landing (EDL) technologies are utilized.

### **NASA Technical Reports Server (NTRS)**

A reusable launch system (RLS, or reusable launch vehicle, RLV) is a space launch system intended to allow for recovery of all or part of the system for later reuse. To date, several fully reusable sub-orbital systems and partially reusable orbital systems have been flown.

### **The history of reusable launch systems - Space Legal Issues**

Rocket Lab successfully launches eighth Electron mission, takes next step in recovery and reuse for future flights (20 August

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2019 - Rocket Lab) A Rocket Lab Electron launch vehicle successfully lifted off from Launch Complex 1 on New Zealand's Māhia Peninsula at 12:12 am, 20 August 2019 NZST (12:12 pm, 19 August 2019 UTC).

### **Rocket Lab successfully launches eighth Electron mission**

...

Standing down from today's Starlink launch due to recovery issue; vehicle and payload remain healthy. Next launch opportunity is tomorrow, September 18 at 1:57 p.m. EDT, but we are keeping an eye ...

### **(Update: scrubbed) SpaceX's next Starlink launch to break ...**

Recovery and Reuse of a Two Stage Launch Vehicle 640297 This paper presents the results of studies conducted for the National Aeronautics and Space Administration, under Contracts NAS

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8-5135 and NAS 811123, on a two-stage Post Saturn Class II launch vehicle.

### **Recovery and Reuse of a Two Stage Launch Vehicle**

Rocket Lab is getting into the reusable-rocket game. The California-based company plans to start recovering and refllying the first stage of its Electron launch vehicle in the near future, Rocket...

### **Rocket Lab Plans to Snag Falling Boosters with a ...**

Studies indicate that a 12-m-dia. (40-ft.) HIAD aeroshell will enable recovery and reuse of Vulcan engines with minimal or no refurbishment. The SMART concept is predicated on development of the Vulcan rocket and ACES (Advanced Cryogenic Evolved Stage) launch system, the combined version of which should be in service by 2023.

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## **United Launch Alliance Vulcan Engine Reuse Gains Ground : ula**

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## **Launch Vehicle Recovery and Reuse. AIAA SPACE 2015 ...**



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Vehicles with Recommendations for Launch and Recovery Marti Sarigul-Klijn, Ph.D. and Nesrin Sarigul-Klijn\*, Ph.D. Mechanical and Aeronautical Engineering Department, University of California, Davis, CA 95616-5294 An overview of every significant method of launch and recovery for manned sub-orbital Reusable Launch Vehicles (RLV) is presented here.

### **Manned Sub-Orbital Space Transportation Vehicles**

Baker-Polito Administration Announces Partnerships for Recovery, \$774 Million Economic Recovery Plan . 10/22/2020 Office of Governor Charlie Baker and Lt. Governor Karyn Polito Press Release. Baker-Polito Administration Celebrates Third Annual STEM Week with Virtual Kickoff in Collaboration with MIT and the Massachusetts Science and Engineering ...

### **Office of Governor Charlie Baker and Lt. Governor Karyn**

...

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Second stage recovery and reuse is nevertheless absolutely crucial to SpaceX's and Elon Musk's goal of reducing launch costs by anywhere from a factor of 10 to 100.

### **SpaceX will attempt Falcon 9 upper stage landings in 2018 ...**

At 10:00:03 a.m. EST, on March 16, 2016, the Gemini 8 Agena Target Vehicle launched from Cape Canaveral's Launch Complex 14 (LC-14). One hour and 41 minutes later, astronauts Neil Armstrong ...

### **50th anniversary of the Gemini 8 mission | by William ...**

The new Vulcan rocket, which got its name through a poll that attracted more than a million votes, incorporates new engines, a reuse approach that involves a mid-air recovery and a new upper stage aimed at enabling complex on-orbit operations.

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