

COMPASS final report: low cost Robotic Lunar Lander



Filesize: 6.73 MB

Reviews

Unquestionably, this is the greatest job by any author. It really is simplistic but shocks inside the fifty percent in the book. I am just pleased to inform you that here is the greatest book i actually have go through within my own existence and could be he greatest ebook for at any time.

(Elva Kemmer)

COMPASS FINAL REPORT: LOW COST ROBOTIC LUNAR LANDER



To save **COMPASS final report: low cost Robotic Lunar Lander** eBook, remember to click the button listed below and save the file or gain access to additional information which might be have conjunction with COMPASS FINAL REPORT: LOW COST ROBOTIC LUNAR LANDER ebook.

No binding. Book Condition: New. This item is printed on demand. Original publisher: Cleveland, Ohio : National Aeronautics and Space Administration, Glenn Research Center, 2010 OCLC Number: (OCoLC)738500910 Excerpt: . . . 2. 5 Small Launch Vehicle Details A number of small class launch vehicles were examined for use in this mission. The Minotaur and Falcon class vehicles were the two that were most appropriate to the launch mass required for the Robotic Lunar Lander. 2. 5. 1 Minotaur Minotaur V is a five-stage evolutionary version of the Minotaur IV space launch vehicle (SLV) to provide an extremely cost-effective capability to launch small spacecraft into high-energy trajectories, including geosynchronous transfer orbits (GTO) and trans-lunar missions. The first three stages of the Minotaur V are the unmodified Peacekeeper solid rocket motors. The stage four motor is nominally a Star-48GV. The fifth stage can be either attitude controlled or spinning. The attitude-controlled version nominally uses the same Orion-38 motor that has been extensively flight demonstrated on multiple Orbital launch vehicles, including Pegasus, Taurus, and Minotaur I. For a spinning configuration, a Star-37FM is used to provide maximum performance. The Minotaur V avionics, structures, and fairing are common with the Minotaur IV SLV, with relatively minor changes to create the five-stage configuration. Moreover, the avionics and flight software are highly common across all Minotaur family vehicles (Orbital Sciences Minotaur V Fact Sheet pdf). Figure 2. 3 shows the projected performance to C values of the Minotaur V launch vehicle taken 3 from the Orbital Sciences Minotaur V Fact Sheet. 2. 5. 2 SpaceX - Alternate Launch Vehicle Option For comparison with the Minotaur launch vehicle family, the SpaceX Falcon launch vehicles were looked at as a possible launcher for this payload. Figure 2. 4 is a graphic...



[Read COMPASS final report: low cost Robotic Lunar Lander Online](#)



[Download PDF COMPASS final report: low cost Robotic Lunar Lander](#)



[Download ePUB COMPASS final report: low cost Robotic Lunar Lander](#)

Relevant eBooks



[PDF] **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

Follow the link beneath to download and read "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" file.

[Read ePub »](#)



[PDF] **ESV Study Bible, Large Print**

Follow the link beneath to download and read "ESV Study Bible, Large Print" file.

[Read ePub »](#)



[PDF] **Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee (Paperback)**

Follow the link beneath to download and read "Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee (Paperback)" file.

[Read ePub »](#)



[PDF] **DK Readers Animal Hospital Level 2 Beginning to Read Alone**

Follow the link beneath to download and read "DK Readers Animal Hospital Level 2 Beginning to Read Alone" file.

[Read ePub »](#)



[PDF] **Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)**

Follow the link beneath to download and read "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" file.

[Read ePub »](#)



[PDF] **Fifth-grade essay How to Write**

Follow the link beneath to download and read "Fifth-grade essay How to Write" file.

[Read ePub »](#)



[PDF] Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)

Click the hyperlink below to download "Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)" PDF file.

[Download PDF »](#)



[PDF] The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program (Paperback)

Click the hyperlink below to download "The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program (Paperback)" PDF file.

[Download PDF »](#)



[PDF] Readers Clubhouse Set a Nick is Sick (Paperback)

Click the hyperlink below to download "Readers Clubhouse Set a Nick is Sick (Paperback)" PDF file.

[Download PDF »](#)



[PDF] Accused: My Fight for Truth, Justice and the Strength to Forgive

Click the hyperlink below to download "Accused: My Fight for Truth, Justice and the Strength to Forgive" PDF file.

[Download PDF »](#)



[PDF] Readers Clubhouse Set B Time to Open (Paperback)

Click the hyperlink below to download "Readers Clubhouse Set B Time to Open (Paperback)" PDF file.

[Download PDF »](#)



[PDF] DK Readers Day at Greenhill Farm Level 1 Beginning to Read

Click the hyperlink below to download "DK Readers Day at Greenhill Farm Level 1 Beginning to Read" PDF file.

[Download PDF »](#)