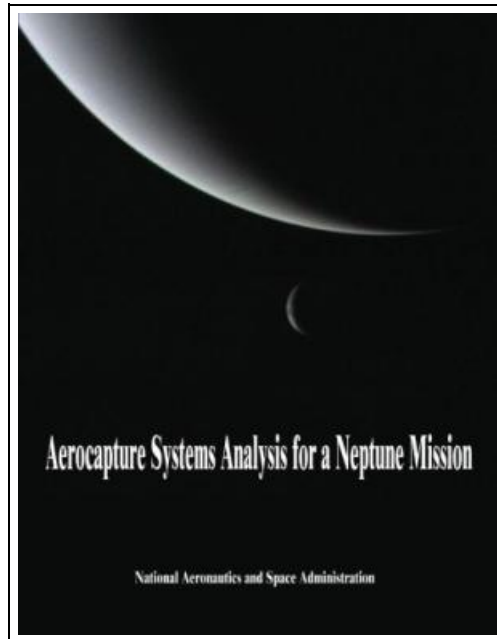


Aerocapture Systems Analysis for a Neptune Mission



Filesize: 1.83 MB

Reviews

It is fantastic and great. It generally is not going to cost an excessive amount of. You will like the way the blogger create this book.
(Gerardo Bauch PhD)

AEROCAPTURE SYSTEMS ANALYSIS FOR A NEPTUNE MISSION

DOWNLOAD



Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.A Neptune Aerocapture Systems Analysis is completed to determine the feasibility, benefit and risk of an aeroshell aerocapture system for Neptune and to identify technology gaps and technology performance goals. The high fidelity systems analysis is completed by a five center NASA team and includes the following disciplines and analyses: science; mission design; aeroshell configuration screening and definition; interplanetary navigation analyses; atmosphere modeling; computational fluid dynamics for aerodynamic performance and database definition; initial stability analyses; guidance development; atmospheric flight simulation; computational fluid dynamics and radiation analyses for aeroheating environment definition; thermal protection system design, concepts and sizing; mass properties; structures; spacecraft design and packaging; and mass sensitivities. Results show that aerocapture can deliver 1.4 times more mass to Neptune orbit than an all-propulsive system for the same launch vehicle. In addition aerocapture results in a 3-4 year reduction in trip time compared to all-propulsive systems. Aerocapture is feasible and performance is adequate for the Neptune aerocapture mission. Monte Carlo simulation results show 100 successful capture for all cases including conservative assumptions on atmosphere and navigation. Enabling technologies for this mission include TPS manufacturing; and aerothermodynamic methods and validation for determining coupled 3-D convection, radiation and ablation aeroheating rates and loads, and the effects on surface recession.



[Read Aerocapture Systems Analysis for a Neptune Mission Online](#)



[Download PDF Aerocapture Systems Analysis for a Neptune Mission](#)

Related Books



I m Thankful For.: A Book about Being Grateful!

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.What are you grateful for?Are you looking for a children s book that...

[Read Book »](#)



Graphic Fiction for Kids with Comic Illustrations: Graphic Novel Dog Farts Book with Comic Pictures

Createspace, United States, 2013. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Black White Illustration Version BONUS - Includes FREE Dog Farts Audio Book for...

[Read Book »](#)



Minecraft Book: An Unofficial Minecraft Book (Minecraft Book, Minecraft Storybook, Minecraft Book for Children, Minecraft Books, Minecraft Diaries, Minecraft Diary, Minecraft Book for Kids)

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Learn how Jonathan, a small boy, became a famous author...

[Read Book »](#)



The genuine book marketing case analysis of the the lam light. Yin Qihua Science Press 21.00(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2007-01-01 Pages: 244 Publisher: Science Press Welcome Our service and quality...

[Read Book »](#)



Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

[Read Book »](#)

**Funny Poem Book For Kids - Cat Dog Humor Books Unicorn Humor Just Really Big Jerks Series - 3 in 1 Compilation Of Volume 1 2 3**

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 132 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. LIMITED-TIME SPECIAL: Special Bonus Inside! Thats right. . . For a limited time

[Download Book »](#)

**The Wolf Who Wanted to Change His Color My Little Picture Book**

Auzou. Paperback. Book Condition: New. Eleonore Thuillier (illustrator). Paperback. 32 pages. Dimensions: 8.2in. x 8.2in. x 0.3in. Mr. Wolf is in a very bad mood. This morning, he does not like his color anymore! He really wants

[Download Book »](#)

**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book ***** Print on Demand *****.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you

[Download Book »](#)

**The Writing Prompts Workbook, Grades 3-4: Story Starters for Journals, Assignments and More**

2012. PAP. Book Condition: New. New Book. Delivered from our US warehouse in 10 to 14 business days. THIS BOOK IS PRINTED ON DEMAND. Established seller since 2000.

[Download Book »](#)

**Read Write Inc. Phonics: Grey Set 7 Non-Fiction 2 a Flight to New York**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 213 x 98 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books

[Download Book »](#)