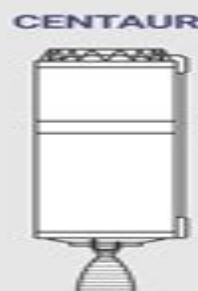




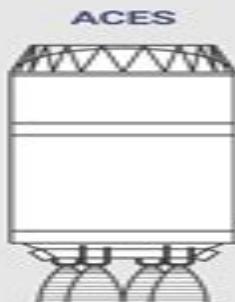
4 METER FAIRING



CENTAUR

CENTAUR IS ULA'S CURRENT UPPER STAGE, USED ON THE ATLAS V SERIES OF LAUNCH VEHICLES. IT PROVIDES A FLIGHT-TESTED AND RELIABLE STAGE. POWERED BY ONE OR TWO AEREOJECT-ROCKETS HYDROXY-RC-10 ENGINES, THE CENTAUR UPPER STAGE PRODUCES UP TO 41,000 POUNDS OF THRUST IN A VACUUM.

ALSO COMPATIBLE WITH CENTAUR II 5 METER FAIRING



ACES

ACES IS ULA'S NEXT GENERATION UPPER STAGE, WITH INTEGRATED VEHICLE FLUIDS. ACES CAN STAY IN ORBIT FOR WEEKS, NOT HOURS.

IN THE FUTURE, ACES WILL ALSO POSSESS ON-ORBIT REFUELING CAPABILITIES. THIS WILL ALLOW ON-ORBIT ACES STAGES TO BE REUSED, DRAMATICALLY REDUCING COST AND ENABLING THE LAUNCH OF MUCH HEAVIER SPACECRAFT TO THE DISTANT REACHES OF OUR SOLAR SYSTEM.

ACES 564

- FAIRING SIZE, IN METERS
- NUMBER OF UPPER STAGE ENGINES
- NUMBER OF SOLID-ROCKET MOTORS
- UPPER STAGE TYPE: II CENTAUR OR ACES

VULCAN SUPPORTS ZERO TO SIX SOLID ROCKET MOTORS

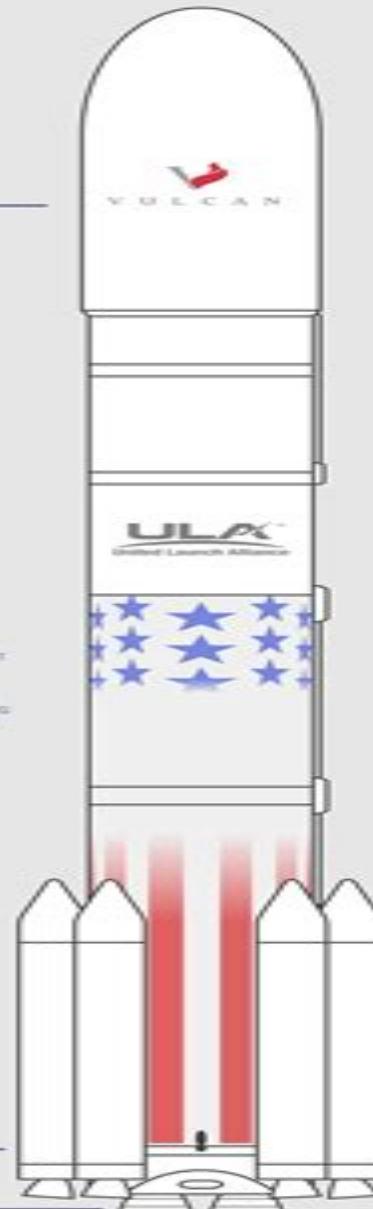
II SOLID ROCKET MOTOR

RUNS ON LIQUID OXYGEN AND METHANE

II BLUE ORIGIN BE-4 ENGINE

CENTAUR 401
~10.7 TONS

VEHICLE CONFIGURATION
PAYLOAD TO LOW EARTH ORBIT



ACES 564
~36 TONS

Atlas V Users Guide

Thomas Lund

Atlas V Users Guide:

Spacecraft Lithium-Ion Battery Power Systems Thomas P. Barrera, 2022-11-21 Spacecraft Lithium Ion Battery Power Systems Provides Readers with a Better Understanding of the Requirements Design Test and Safety Engineering of Spacecraft Lithium ion Battery Power Systems Written by highly experienced spacecraft engineers and scientists working at the forefront of the aerospace industry Spacecraft Lithium Ion Battery Power Systems is one of the first books to provide a comprehensive treatment of the broad area of spacecraft lithium ion battery LIB power systems technology The work emphasizes the technical aspects across the entire lifecycle of spacecraft LIBs including the requirements design manufacturing testing and safety engineering principles needed to deploy a reliable spacecraft LIB based electrical power system A special focus on rechargeable LIB technologies as they apply to unmanned and crewed Earth orbiting satellites planetary mission spacecraft such as orbiters landers rovers and probes launch vehicle and astronaut spacesuit applications is emphasized Using a system s engineering approach the book bridges knowledge gaps that typically exist between academic and industry practitioners Key topics of discussion and learning resources include Detailed systematic technical treatment of spacecraft LIB based electrical power systems across the entire LIB lifecycle Principles of lithium ion cell and battery design and test LIB sizing battery management systems electrical power systems safety engineering ground and launch site processing and on orbit mission operations Special topics such as requirements engineering qualification testing thermal runaway hazards dead bus events life cycle testing and prediction analyses on orbit LIB power system management and spacecraft EPS passivation strategies Comprehensive discussion of on orbit and emerging space applications of LIBs supporting various commercial civil and government spacecraft missions such as International Space Station Galileo James Webb Telescope Mars 2020 Perseverance Rover Europa Clipper Cubesats and more Overall the work provides professionals supporting all aspects of the aerospace marketplace with key knowledge and highly actionable information pertaining to LIBs and their specific applications in modern spacecraft systems

Lunar and Interplanetary Trajectories Robin Biesbroek, 2015-12-23 This book provides readers with a clear description of the types of lunar and interplanetary trajectories and how they influence satellite system design The description follows an engineering rather than a mathematical approach and includes many examples of lunar trajectories based on real missions It helps readers gain an understanding of the driving subsystems of interplanetary and lunar satellites The tables and graphs showing features of trajectories make the book easy to understand

Spacecraft Exploring Outer Planets Thomas Lund, 2025-10-07 This book features eight remarkable spacecraft that ventured to the outer planets Jupiter Saturn Uranus Neptune and the dwarf planet Pluto It delves into the complex engineering behind each mission detailing the spacecraft systems and the sophisticated scientific instruments they carried Tracing the journey of outer planet exploration the book narrates the evolution of spacecraft technology that helped unveil the long sought secrets of these distant worlds The innovative designs reflect the dedication

and brilliance of the engineers and scientists who worked with the best technology available at the time Clever workarounds devised in response to mission critical failures serve as powerful examples of human ingenuity and perseverance The book also presents key scientific discoveries from each mission along with stunning visuals offering an engaging overview of their achievements It serves as a companion to Spacecraft that Explored the Inner Planets Venus and Mercury published by Springer in 2023 New User's Guide to Useful and Unique Resources on the Internet Andrew Perry,1992 Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields Adrian Olaru,2014-06-30 Selected peer reviewed papers from the 9th International Conference on Modeling and Optimization of the Aerospace Robotics Mechatronics Machines Tools Mechanical Engineering and Human Motricity Fields OPTIROB 2014 June 26 29 2014 Mangalia Romania *A User's Guide to the Official Records of the American Civil War* Alan Conrad Aimone,Barbara A. Aimone,1993 The library has the records to which this user's guide refers See United States War Department The War of the rebellion a compilation of the official records of the Union and Confederate armies **Making Sense of Ballistic Missile Defense** National Research Council,Division on Engineering and Physical Sciences,Committee on an Assessment of Concepts and Systems for U.S. Boost-Phase Missile Defense in Comparison to Other Alternatives,2012-12-28 The Committee on an Assessment of Concepts and Systems for U S Boost Phase Missile Defense in Comparison to Other Alternatives set forth to provide an assessment of the feasibility practicality and affordability of U S boost phase missile defense compared with that of the U S non boost missile defense when countering short medium and intermediate range ballistic missile threats from rogue states to deployed forces of the United States and its allies and defending the territory of the United States against limited ballistic missile attack To provide a context for this analysis of present and proposed U S boost phase and non boost missile defense concepts and systems the committee considered the following to be the missions for ballistic missile defense BMD protecting of the U S homeland against nuclear weapons and other weapons of mass destruction WMD or conventional ballistic missile attacks protection of U S forces including military bases logistics command and control facilities and deployed forces including military bases logistics and command and control facilities They also considered deployed forces themselves in theaters of operation against ballistic missile attacks armed with WMD or conventional munitions and protection of U S allies partners and host nations against ballistic missile delivered WMD and conventional weapons Consistent with U S policy and the congressional tasking the committee conducted its analysis on the basis that it is not a mission of U S BMD systems to defend against large scale deliberate nuclear attacks by Russia or China **Making Sense of Ballistic Missile Defense An Assessment of Concepts and Systems for U S Boost Phase Missile Defense in Comparison to Other Alternatives** suggests that great care should be taken by the U S in ensuring that negotiations on space agreements not adversely impact missile defense effectiveness This report also explains in further detail the findings of the committee makes recommendations and sets guidelines for the future of ballistic missile

defense research Energy Research Abstracts ,1980 **Bibliographic Guide to Maps and Atlases 2001** G. K. Hall and Co. Staff,GK Hall,2002-07 CubeSat Handbook Chantal Cappelletti,Simone Battistini,Benjamin K. Malphrus,2020-09-25 CubeSat Handbook From Mission Design to Operations is the first book solely devoted to the design manufacturing and in orbit operations of CubeSats Beginning with an historical overview from CubeSat co inventors Robert Twiggs and Jordi Puig Suari the book is divided into 6 parts with contributions from international experts in the area of small satellites and CubeSats It covers topics such as standard interfaces on board ground software industry standards in terms of control algorithms and sub systems systems engineering standards for AITV assembly integration testing and validation activities and launch regulations This comprehensive resource provides all the information needed for engineers and developers in industry and academia to successfully design and launch a CubeSat mission Provides an overview on all aspects that a CubeSat developer needs to analyze during mission design and its realization Features practical examples on how to design and deal with possible issues during a CubeSat mission Covers new developments and technologies including ThinSats and PocketQubeSats International Reference Guide to Space Launch Systems Steven J. Isakowitz,Joseph P. Hopkins,Joshua B. Hopkins,2004 This bestselling reference guide contains the most reliable and comprehensive material on launch programs in Brazil China Europe India Israel and the United States Packed with illustrations and figures this edition has been updated and expanded and offers a quick and easy data retrieval source for policy makers planners engineers launch buyers and students Classified Catalogue, Not Including Fiction, Juveniles and German Peoria Public Library,1899 **The Medical Outcomes & Guidelines Sourcebook** ,1997 Astrofizicheskie issledovaniia ,1986 National Union Catalog ,1980 **International Reference Guide to Space Launch Systems** ,1999 Library of Congress Catalog Library of Congress,1972 Beginning with 1953 entries for Motion pictures and filmstrips Music and phonorecords form separate parts of the Library of Congress catalogue Entries for Maps and atlases were issued separately 1953 1955 PC Magazine ,1996-04 **Directory of Forestry and Natural Resources Computer Software** ,1989 **Government Reports Annual Index** ,1990

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