

Briz-M: Burn 4
19:47:52 GMT
t=12 min. 29 sec.

ExoMars-2016 separation
from Briz-M
20:13:01 GMT

Briz-M: tank
jettison

Briz-M burial orbit

Earth-escape orbit/
Path to Mars

Transfer orbit
 $H = 693 \times 21,079$ km
 $i = 51.55$

Intermediate orbit
 $H = 292 \times 5,272$ km
 $i = 51.58$ deg.

Parking orbit
 $H = 175$ km
 $i = 51.55$ deg.

Briz-M:
Burn 1
09:43:58 GMT
t=4 min. 29 sec.

Initial ascent: Stage 1, 2, 3

Briz-M: Burn 3:
13:23:58 GMT
t=14 min. 31 sec. Briz-M: Burn 2: 11:09:46 GMT, t=18 min. 03 sec.

Not to scale

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The Escape Orbit

**The Technical Staff, Research
Division,,T. C. Helvey**



The Escape Orbit:

The Escape Orbit James White, 1983 Escape Orbit Patrick Chiles, 2023-04-04 A RACE AGAINST TIME AND A GATEWAY TO THE UNKNOWN AWAITS Thrilling space adventure from a Marine vet Five years ago astronaut Jack Templeton took the spacecraft Magellan to the farthest reaches of our solar system never to be heard from again Until now When the Magellan suddenly reappears where an undiscovered planet was suspected to be it poses more questions than answers How did Jack survive all this time Can he be rescued before his life support runs out And what is the object long thought to be the elusive Planet Nine In a race against time Jack s former crewmate Traci Keene spearheads a desperate effort to outfit a rescue mission But she has competition Agencies of both American and foreign governments have their own agendas and rescuing rogue astronauts isn t among them And at the edge of all that is known a gateway to the unknown awaits At the publisher s request this title is sold without DRM Digital Rights Management About Frozen Orbit hard science fiction and an entertaining and gripping plot science fiction at its best The Galveston County Daily News About Farside The situations are realistic the characters interesting the perils harrowing and the stakes could not be higher John Walker Ricochet com Fixed-base Simulator Investigation of Lightweight Vehicles for Lunar Escape to Orbit with Kinesthetic Attitude Control and Simplified Manual Guidance David B. Middleton, George J. Hurt (Jr.), 1971 **Tragedy and Triumph in Orbit** Ben Evans, 2012-06-01 April 12 2011 is the 50th anniversary of Yuri Gagarin s pioneering journey into space To commemorate this momentous achievement Springer Praxis is producing a mini series of books that reveals how humanity s knowledge of flying working and living in space has grown in the last half century Tragedy and Triumph focuses on the 1980s and early 1990s a time when relations between the United States and the Soviet Union swung like a pendulum between harmony and outright hostility The glorious achievements of the shuttle were violently arrested by the devastating loss of Challenger in 1986 while the Soviet program appeared to prosper with the last Salyut and the next generation Mir orbital station This book explores the continued rivalry between the two superpowers during this period with each attempting to outdo the other the Americans keen to build a space station the Soviets keen to build a space shuttle and places their efforts in the context of a bitterly divisive decade which ultimately led them into partnership **Astronautics** Ulrich Walter, 2019-02-14 This introductory text covers all the key concepts relationships and ideas behind spaceflight and is the perfect companion for students pursuing courses on or related to astronautics As a crew member of the STS 55 Space Shuttle mission and a full professor of astronautics at the Technical University of Munich Ulrich Walter is an acknowledged expert in the field This book is based on his extensive teaching and work with students and the text is backed up by numerous examples drawn from his own experience With its end of chapter examples and problems this work is suitable for graduate level or even undergraduate courses in spaceflight as well as for professionals working in the space industry This third edition includes substantial revisions of several sections to extend their coverage These include both theoretical

extensions such as the study of relative motion in near circular orbits and more practical matters such as additional details about jet engine and general rocket performance New sections address regularized equations of orbital motion and their algebraic solutions and also state vector propagation two new chapters are devoted to orbit geometry and orbit determination and to thermal radiation physics and modelling *The Living Universe* James Carter,2011-12-13 The Living Universe is a new non field theory of Mass Space Time Energy and Gravity It explains the creation of the universe without the Big Bang and details the structure and workings of Matter Energy and Gravity in a way that anyone can understand

Fundamental Astronomy Hannu Karttunen,Pekka Kröger,Heikki Oja,Markku Poutanen,Karl Johan Donner,2003-06-23 Fundamental Astronomy is a well balanced comprehensive introduction to classical and modern astronomy While emphasizing both the astronomical concepts and the underlying physical principles the text provides a sound basis for more profound studies in the astronomical sciences This is the fifth edition of the successful undergraduate textbook and reference work It has been extensively modernized and extended in the parts dealing with extragalactic astronomy and cosmology You will also find augmented sections on the solar system extrasolar planets and astrobiology Long considered a standard text for physical science majors Fundamental Astronomy is also an excellent reference work for dedicated amateur astronomers

Space Trajectories The Technical Staff, Research Division,,T. C. Helvey,2014-05-12 Space Trajectories covers the proceedings of a symposium sponsored by the American Astronautical Society Advanced Research Projects Agency and Radiation Incorporated held on December 14 15 1959 The book focuses on the field of trajectory analysis including orbital and trajectory computations tracking of satellites and the use of computer programs in space missions The selection first tackles satellite and probe orbit determination general survey of the field and astrodynamics as well as theoretical computational and operational problems application to lunar orbits and contributions of satellite observations The book then examines trajectory constants and trajectory computation and optimization Discussions focus on the classical method of orbital computation effect of uncertainty on interplanetary orbits masses diameter and flattening of planets and determination of the physical constants of the moon The manuscript takes a look at trajectory computation and optimization trajectory computation in systems design and computer programs for space missions Topics include simulation and targeting programs satellite tracking methods direct numerical integration classical methods of orbital computation and references on trajectory computation and optimization Space born computer design space maneuvers and re entry trajectories and problems of hypersonic flow are also mentioned The selection is a valuable source of data for astronauts and readers interested in space trajectories The Other Theory of Physics James Carter, **Orbital Mechanics and Astrodynamics** Gerald R. Hintz,2015-01-06 This textbook covers fundamental and advanced topics in orbital mechanics and astrodynamics to expose the student to the basic dynamics of space flight The engineers and graduate students who read this class tested text will be able to apply their knowledge to mission design and navigation of space missions Through highlighting basic analytic

and computer based methods for designing interplanetary and orbital trajectories this text provides excellent insight into astronautical techniques and tools This book is ideal for graduate students in Astronautical or Aerospace Engineering and related fields of study researchers in space industrial and governmental research and development facilities as well as researchers in astronautics This book also Illustrates all key concepts with examples Includes exercises for each chapter Explains concepts and engineering tools a student or experienced engineer can apply to mission design and navigation of space missions Covers fundamental principles to expose the student to the basic dynamics of space flight

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