

Space Junk 10

Elmer H. Davison, Paul C. Winslow

Space Junk Karen Romano Young, 2016-01-01 Scientists have identified at least 100 million pieces of space debris—from paint chips to nonoperational zombie satellites—floating in Earth's orbit. And over 100 tons of those pieces enter Earth's atmosphere each year! Journey into outer space and learn about the dangers of space junk collisions, how scientists track them, and how space agencies are working to develop new technologies to clean up the space junk. Along the way, you'll hear from the scientists who are working to ensure that outer space remains a safe place to travel and explore. If we don't tackle the space junk problem, it might be impossible to travel into space; it could even trap us on Earth.

Orbital Debris National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Space Debris, 1995-07-07 Since the beginning of space flight, the collision hazard in Earth orbit has increased as the number of artificial objects orbiting the Earth has grown. Spacecraft performing communications, navigation, scientific, and other missions now share Earth orbit with spent rocket bodies, nonfunctional spacecraft, fragments from spacecraft breakups, and other debris created as a byproduct of space operations. Orbital Debris examines the methods we can use to characterize orbital debris, estimates the magnitude of the debris population, and assesses the hazard that this population poses to spacecraft. Potential methods to protect spacecraft are explored. The report also takes a close look at the projected future growth in the debris population and evaluates approaches to reducing that growth. Orbital Debris offers clear recommendations for targeted research on the debris population, for methods to improve the protection of spacecraft, on methods to reduce the creation of debris in the future, and much more.

What Is Space Junk? Todd Swatling, 2018-07-15 Every generation is filled with the wonder of what's out there beyond our planet, making space travel and exploration one of the most popular science topics of all time. But what happens to all that stuff we send up into outer space? Does it come back down to Earth or stay up there forever? This exciting, high-interest topic attracts even reluctant readers to read about STEAM topics. Fact boxes add extra information that's Out of this World! throughout the book. Each spread is complemented with vivid NASA photography.

Dr Space Junk vs The Universe Alice Gorman, 2019-10-22 A pioneering space archaeologist explores artifacts left behind in space and on Earth, from moon dust to Elon Musk's red sports car. Alice Gorman is a space archaeologist: she examines the artifacts of human encounters with space. These objects, left behind on Earth and in space, can be massive (dead satellites in eternal orbit) or tiny (discarded zip ties around a defunct space antenna). They can be bold (an American flag on the moon) or hopeful (messages from Earth sent into deep space). They raise interesting questions: Why did Elon Musk feel compelled to send a red Tesla into space? What accounts for the multiple rocket-themed playgrounds constructed after the Russians launched Sputnik? Gorman—affectionately known as “Dr Space Junk”—takes readers on a journey through the solar system and beyond, deploying space artifacts, historical explorations, and even the occasional cocktail recipe in search of the ways that we make space meaningful. Engaging and erudite, Gorman recounts her background as a (nonspace) archaeologist and how she became interested in space artifacts. She shows us her own piece of space junk: a fragment of the fuel tank insulation from Skylab, the NASA spacecraft that crash-landed in Western Australia in 1979. She explains that the conventional view of the space race as “the triumph of the white, male American astronaut” seems inadequate; what really interests her, she says, is how everyday people engage with space. To an archaeologist, objects from the past are significant because they remind us of what we might want to hold on to in the future.

Space Junk Andrew Bixler, 2019-11-22 Adam Jones is just another broke scrapper combing his little slice of space for the semi-valuable trash that

litters its dark corners. He spends most of his days inside his junker, the Asteroid Jones II, drinking beer, watching ancient horror movies, and evading debt collectors. But life for Adam gets a lot more complicated when he discovers a mysterious object that attracts the attention of powerful and bumbling forces from around the universe. With the help of his wily grandfather and a mysterious feline stranger, Adam risks life and love in pursuit of financial freedom, even as the rest of the universe threatens to reduce him to space dust.

Limiting Future Collision Risk to Spacecraft National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee for the Assessment of NASA's Orbital Debris Programs, 2011-11-16 Derelict satellites, equipment and other debris orbiting Earth (aka space junk) have been accumulating for many decades and could damage or even possibly destroy satellites and human spacecraft if they collide. During the past 50 years, various National Aeronautics and Space Administration (NASA) communities have contributed significantly to maturing meteoroid and orbital debris (MMOD) programs to their current state. Satellites have been redesigned to protect critical components from MMOD damage by moving critical components from exterior surfaces to deep inside a satellite's structure. Orbits are monitored and altered to minimize the risk of collision with tracked orbital debris. MMOD shielding added to the International Space Station (ISS) protects critical components and astronauts from potentially catastrophic damage that might result from smaller, untracked debris and meteoroid impacts. *Limiting Future Collision Risk to Spacecraft: An Assessment of NASA's Meteoroid and Orbital Debris Program* examines NASA's efforts to understand the meteoroid and orbital debris environment, identifies what NASA is and is not doing to mitigate the risks posed by this threat, and makes recommendations as to how they can improve their programs. While the report identified many positive aspects of NASA's MMOD programs and efforts including responsible use of resources, it recommends that the agency develop a formal strategic plan that provides the basis for prioritizing the allocation of funds and effort over various MMOD program needs. Other necessary steps include improvements in long-term modeling, better measurements, more regular updates of the debris environmental models, and other actions to better characterize the long-term evolution of the debris environment.

Space Debris Heiner Klinkrad, 2006-09-01 The future evolution of the debris environment will be forecast on the basis of traffic models and possible hazard mitigation practices. The text shows how large trackable objects will have re-entry pinpointed and predictions made on related risk assessment for possible ground impact. Models will also be described for meteoroids which are also a prevailing risk.

Protecting the Space Station from Meteoroids and Orbital Debris Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on International Space Station Meteoroid/Debris Risk Management, 1997-02-02

Meteoroids and Orbital Debris Cynthia A. Belk, 1997 Descriptions are presented of orbital debris source, distribution, size, lifetime, and mitigation measures.

Space Debris Hazard Evaluation Elmer H. Davison, Paul C. Winslow, 1961

10 Amazing and Little-Known Space Discoveries Of 2018 Krishu 80 moorthy, 2020-04-15 10The Largest Star Map Ever Made Photo credit: esa.intIn April 2018, the European Space Agency (ESA) publicly released the largest sky map ever created to date. The map is a three-dimensional reconstruction of the sky seen from Earth, thanks to data obtained by the Gaia spacecraft. This space probe was launched in 2013 by the same agency and is located 1.6 million kilometers (1 million mi) away from Earth. With two telescopes and a one-billion-pixel camera, Gaia's mission is to photograph the entire sky every two months. With the information obtained, ESA's star map contains the

brightness and position of 1.7 billion stars. This makes the map 700 million times larger than its preliminary version in 2016. At the same time, it stores data about the color and movement of 1.3 billion stars. As if that were not enough, the image shows the location of half a million other galaxies as well as 14,000 asteroids in our solar system. This map, which will remain under construction for the next few years, is a gold mine for astronomers around the world. With such a detailed model, scientists will be able to better understand the formation and structure of our galaxy as well as find evidence of new exoplanets. [1]9

Water Ice Found On The Moon Photo credit: Live Science

For a long time, there has been evidence pointing to the existence of ice on the Moon, but the proof has never been conclusive. There were signs of ice at the lunar south pole, for example, but these observations could be explained with phenomena other than the presence of water. That changed on August 20 when NASA first confirmed the existence of water ice on both poles of the Moon. The definitive evidence was obtained through observations made by the Moon Mineralogy Mapper (M3), an instrument aboard an Indian spacecraft. These observations showed significant amounts of ice deposited at the bottom of several craters at the south pole. Meanwhile, the ice is more dispersed in thinner layers at the north pole. Although the Moon's surface reaches 100 degrees Celsius (212 °F), making the presence of liquid water impossible, the temperature in the polar craters drops to -157 degrees Celsius (-251 °F). This allows the water there to remain frozen for long periods. This great discovery may encourage attempts to return to the Moon. Several uses for lunar water have already been planned. In some cases, it could be filtered and used for astronauts' consumption. It could also be split into hydrogen and oxygen to provide air to humans there or for use as rocket fuel. This last option would allow the Moon to be used as a refueling stop for spaceflights to more distant places. [2]8

We Have Learned To Remove Space Junk Photo credit: iflscience.com

With the help of rockets, space stations, and satellites, humans have made great advances that have improved the lives of many people. But when these inventions stop working, their parts just keep floating in space as useless waste. We call this space junk, and there is a lot of it. Since there are millions of pieces of space debris around the Earth and a collision with these would be catastrophic, space exploration is becoming more difficult. For that reason, scientists have struggled to find a way to eliminate space junk. This year, it seems they have found it. Researchers at the University of Surrey in England sent a satellite called RemoveDEBRIS into space. This satellite has the mission to test four built-in technologies to try to deorbit space debris: a net, a smaller satellite, a harpoon, and a drag sail. In September, the first experiment involving the net was conducted, and the results were successful. First, the

State Accountability for Space Debris Peter Stubbe, 2017-11-13

In *State Accountability for Space Debris* Peter Stubbe examines the legal consequences of space debris pollution – which he argues is a global environmental concern – under the two distinct accountability regimes of responsibility and liability.

Space Debris and Other Threats from Outer Space Joseph N. Pelton, 2013-03-27

The mounting problem of space debris in low earth orbit and its threat to the operation of application satellites has been increasingly recognized as space activities increase. The efforts of the Inter Agency Space Debris Coordinating Committee (IADC) and UN COPUS have now led to international guidelines to mitigate the creation of new debris. This book discusses the technical studies being developed for active removal processes and otherwise mitigating problems of space debris, particularly in low earth orbit. This book also considers threats to space systems and the Earth that comes from natural causes such as asteroids, coronal mass ejections, and radiation. After more than half a century of space applications and explorations, the time has come to consider ways to provide sustainability for long-term space

activities.

The New NASA Orbital Debris Engineering Model OrDEM2000 National Aeronautics and Space Administration (NASA), 2018-06-11 The NASA Orbital Debris Program Office at Johnson Space Center has developed a new computer-based orbital debris engineering model, ORDEM2000, which describes the orbital debris environment in the low Earth orbit region between 200 and 2000 km altitude. The model is appropriate for those engineering solutions requiring knowledge and estimates of the orbital debris environment (debris spatial density, flux, etc.). ORDEM2000 can also be used as a benchmark for ground-based debris measurements and observations. We incorporated a large set of observational data, covering the object size range from 10 mm to 10 m, into the ORDEM2000 debris database, utilizing a maximum likelihood estimator to convert observations into debris population probability distribution functions. These functions then form the basis of debris populations. We developed a finite element model to process the debris populations to form the debris environment. A more capable input and output structure and a user-friendly graphical user interface are also implemented in the model. ORDEM2000 has been subjected to a significant verification and validation effort. This document describes ORDEM2000, which supersedes the previous model, ORDEM96. The availability of new sensor and in situ data, as well as new analytical techniques, has enabled the construction of this new model. Section 1 describes the general requirements and scope of an engineering model. Data analyses and the theoretical formulation of the model are described in Sections 2 and 3. Section 4 describes the verification and validation effort and the sensitivity and uncertainty analyses. Finally, Section 5 describes the graphical user interface, software installation, and test cases for the user. Liou, Jer-Chyi and Matney, Mark J. and Anz-Meador, Phillip D. and Kessler, Donald and Jansen, Mark and Theall, Jeffery R. Johnson Space Center COMPUTER TECHNIQUES; LOW EARTH ORBITS; PROBABILITY DISTRIBUTION FUNCTIONS; SPACE DEBRIS; COMPUTER PROGRAMMING; DA

Space Junk Amy Tucker Carroll, Peter H. Framson, 2004-01-15 Five inventive young teens and their homemade robotron begin the summer of 2310 at space camp. They are exploring the history of space flight when a series of destructive events threatens life on EarthOne. The campers, assisted by Cyrus the robotron, ancient cell phones, old spy satellites, and space-based laser platforms, battle an invisible genius trying to destroy their home planet.

Space Junk Joyce Markovics, 2023-01-15 Space junk is any human-made object in orbit around Earth that no longer has a use—and it's a huge problem. This debris includes anything from large satellites and rocket parts to tiny screws and paint chips. Space junk can damage a spacecraft—and also cause issues for humans on Earth. This book takes readers on an exciting out-of-this-world voyage and uncovers cutting-edge technology while supporting STEM and NGSS standards. Each book contains fact boxes, sidebars, a glossary, an index, and places to go for more information. Technology has allowed people to explore space—from building and launching spacecraft to walking on the moon and finding black holes! Tech Bytes: Exploring Space takes readers on an exciting out-of-this-world voyage and uncovers cutting-edge technology. This series supports STEM and NGSS standards. Each book contains fact boxes, sidebars, a glossary, an index, and places to go for more information.

Technical Report on Space Debris United Nations. General Assembly. Committee on the Peaceful Uses of Outer Space. Scientific and Technical Subcommittee, 1999

What Is Space Junk? Todd Swatling, 2018-07-15 Every generation is filled with the wonder of what's out there beyond our planet, making space travel and exploration one of the most popular science topics of all time. But what happens to all that stuff we send up into outer space? Does it come back down to Earth or stay up there forever? This exciting, high-interest topic attracts even reluctant readers to read about STEAM topics. Fact boxes add extra information that's Out of this World! throughout the book. Each spread

is complemented with vivid NASA photography.

Introduction to Space Debris: Challenges and Removal Techniques Lakshya Vaibhav Datta, Ugur Guven, 2013 Especially with advents in space technology, space debris removal has become more important than ever. There can be several methods of removal of space debris. One of the viable options available is taking proper precautions in satellites and objects being sent up into space, such that they can use their own systems in order to return back to Earth upon completion of their missions or burn up in the Earth's atmosphere and hence not pose a threat to future space missions. The main problem in the mission to rid the planet's boundary of unwanted debris particles lies in the removal of those particles and objects which do not have the capability of using their own systems to return to Earth or get burnt up in the Earth's atmosphere in a short duration of time. Old rocket shells, satellite components and fragments, make up only a small part of nearly 16,000 space debris particles larger than 10 centimeters being constantly monitored by NASA. This book discusses ways of removing those space debris components, which have completed their respective missions. This work by Lakshya Datta, edited by Dr. Ugur GUVEN is a perfect book as a beginners guide to the Fundamentals of Space Debris.

10 Things You Should Know About Space Exploration Christopher Bish, For centuries humans have looked to the planets and stars in awe and over the past 50 years we have made some incredible advances in space exploration.

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