



The Apollo 13 Mission

Henry S. F. Cooper



The Apollo 13 Mission:

The Apollo 13 Mission Helen Zelon,2001-12-15 Discusses the Apollo 13 mission and surviving an explosion in space

Surviving a Space Disaster Benjamin Tunby,2019-01-01 The Apollo 13 mission began smoothly But an explosion on the spacecraft changed everything Instead of landing on the moon the astronauts were fighting for their lives This true story reveals the quick thinking and teamwork it took to survive

The Apollo 13 Mission Cassandra Radomski,2014 Explains the Apollo 13 crisis including its chronology causes and lasting effects

Apollo 13 Virginia Loh-Hagan,2018-01-01 Could you survive mechanical failure in space Apollo 13 Mission to the Moon in the True Survival series explores the shocking survival story of the Apollo 13 spacecraft and her crew The book is written with a high interest level and lower level of complexity to serve more mature students reading at lower levels Clear visuals colorful photographs including images of the survivors and considerate text help with comprehension and wild facts hold the readers interest from the first page to the last A table of contents glossary and index all enhance comprehension and vocabulary

Saving Apollo 13 John Hamilton,2019-12-15 This title introduces readers to the skills and technology that came together to help bring the Apollo 13 crew home after the command module was knocked out two days into the mission Simple text and incredible close up photographs focus on the amazing rescue work This title also features details about what to do if readers find themselves in a similar situation surprising facts and quotes from the rescuers and the rescued Aligned to Common Core Standards and correlated to state standards A D Xtreme is an imprint of Abdo Publishing a division of ABDO

Apollo 13 Laura B. Edge,2020-03-03 Houston we ve had a problem On April 13 1970 the three astronauts aboard the Apollo 13 spacecraft were headed to the moon when a sudden explosion rocked the ship Oxygen levels began depleting rapidly Electrical power began to fail Astronauts James Lovell Jack Swigert and Fred Haise were about to be stranded in the inky void of outer space The mission to the moon was scrapped Now Apollo 13 s only goal was to bring the crew home With the damaged spacecraft hurtling towards the moon at roughly six thousand miles per hour there was little hope of success But the astronauts and mission control were fully prepared to do whatever it took to return the crew to Earth This space disaster occurred at the peak of the United States Space Race against the Soviet Union But for four days in 1970 the two nations put aside their differences and the entire world watched the skies hoping and praying the astronauts would return safely As missions to Mars and commercial space flight become a reality the time is now to be reminded of our common humanity of how rivals can work together and support each other towards a shared goal Because no matter what happens or where we travel we all call Earth home

The Apollo 13 Mission Donald B. Lemke,2006 In graphic novel format tells the dramatic story of the rescue of the Apollo 13 astronauts

Danger in Space Henry M. Holden,2012-07-01 Soaring through space at 25 000 per hour Apollo 13 was on course for the Moon Suddenly the three astronauts aboard the spacecraft heard a loud bang A strong vibration rumbled through the crew cabin There had been an explosion in the oxygen tank More than 200 000 miles from Earth Apollo 13 was

in grave danger The astronauts had planned to land on the Moon but now they had a new mission survival Author Henry M Holden delivers the gripping details of how three astronauts with the help of NASA scientists on Earth turned a story of disaster into one of triumph **Houston, We've Had a Problem** Charles River Charles River Editors, 2015-05-27 Includes pictures Includes accounts of the mission written by the astronauts and members of Mission Control Includes online resources and a bibliography for further reading Includes a table of contents The only experiment we completed on Apollo 13 was not on the original mission list James Lovell Jr In the summer of 1969 Apollo 11 successfully landed men on the Moon for the first time in history and Apollo 12 successfully landed astronauts on the Moon just a few months after Apollo 11 s successful mission Apollo 12 was actually more successful than Apollo 11 from the standpoint of fulfilling the mission objectives but it was naturally overshadowed since it did not come first Another reason Apollo 12 is mostly forgotten today can be credited to the dramatic and fateful Apollo 13 mission which took twists and turns nobody could have predicted when it launched on April 11 1970 Apollo 13 s mission was to land on the Moon near the Fra Mauro highlands which were hills that had somehow formed in the middle of a huge crater tens of miles wide The mission was supposed to test for seismic activity and take samples to analyze the crater and try to find an explanation for the formation of the hills Of course as is widely known today Apollo 13 never made the landing The ever dependable Saturn V properly thrust Apollo 13 out of the Earth s orbit and toward the Moon but two days into the voyage the crew heard a loud bang At first the crew was not sure what had happened leading Commander James Lovell to famously transmit to Mission Control Houston we ve had a problem As it turned out one of the main oxygen tanks had ruptured in the Service Module causing a catastrophic failure The Command Service Module s fuel cells all shut down leaving the command Service Module to run on backup batteries In other words Apollo 13 was adrift between the Earth and the Moon with limited battery power With severely limited supplies and power Apollo 13 shut down the Command Service Module altogether and the entire crew had to rely on camping out in the Lunar Module which was only equipped to support two astronauts The Moon landing was obviously out of the question but Apollo 13 still had to orbit around the Moon to head back to Earth a trip that would take four more days Power and water were the two most critical shortages forcing the crew to maintain the Lunar Module at low energy The crew also had to worry about carbon dioxide building up and poisoning them because the Lunar Module s system to remove carbon dioxide was designed to support two people for a few days not three people for four days Once Apollo 13 rounded the Moon and headed back to Earth the crew and Mission Control managed to restart the Command Service Module rerouting power from the Lunar Module to the Command Service Module The crew also had to manually realign the spacecraft for reentry as Lovell had done for Apollo 8 Before reentry the Service Module was jettisoned from the spacecraft and pictures of it were taken to see what went so terribly wrong The crew then jettisoned the Lunar Module that had saved their lives leaving it to burn up in the Earth s atmosphere On the afternoon of April 17 Apollo 13 s Command Module made a nerve wracking but successful reentry

into Earth's atmosphere allowing Lovell to consider the mission a successful failure Gene Kranz the Lead Flight Controller at Mission Control considered Apollo 13's safe return to be NASA's finest hour Houston We've Had a Problem The History of the Apollo 13 Mission analyzes the conception of the Apollo program and the events that brought about one of the most famous space missions in history Along with pictures of important people places and events you will learn about Apollo 13 like never before in no time at all **Apollo 13** United States. National Aeronautics and Space Administration,2000 In 1970 some considered Apollo 13 a catastrophic failure but it has since been recognised as one of NASA's truly great moments when the spirit of daring and ingenuity came to life in the team at Mission Control as they successfully brought the crew home In Apollo 13 the NASA mission report some of the rare official documentation of the voyage of Apollo 13 is collected and made commercially available for the first time *The Apollo 13 Mission* Judy L. Hasday,2001 A biography of the young star of the movie E.T. who survived her troubled early years and has gone on to become a successful actress and movie producer Apollo 13 James Lovell,Jeffrey Kluger,2019-02-12 NATIONAL BESTSELLER Astronaut Jim Lovell and coauthor Jeffrey Kluger's harrowing account of the Apollo 13 disaster Serving as the basis for Ron Howard's blockbuster Apollo 13 the book reveals true details not shown in the movie Thrilling and evocative you feel as though you're alongside Lovell in the lunar module Written with all the color and drama of the best fiction Apollo 13 tells the full story of the moon shot that almost ended in catastrophe Minutes after a mid flight explosion the three astronauts are forced to abandon the main ship for the lunar module a tiny craft designed to keep two men alive for just two days As the hours tick away the narrative shifts from the crippled spacecraft to Mission Control from engineers searching desperately for a way to fix the ship to Lovell's wife and children praying for his safe return The entire nation watches as one crisis after another is met and overcome By the time the ship splashes down in the Pacific we understand why the heroic effort to rescue Lovell and his crew is considered by many to be NASA's finest hour Inspiring and astonishing the story of Apollo 13 is a timeless tribute to the enduring American spirit and sparkling individual heroism *The Apollo 13 Mission* Cassandra Radomski,2014 Explains the Apollo 13 crisis including its chronology causes and lasting effects Apollo 13 Alan Pierce,2005-01-01 Discusses defining moments in American history *Crisis in Space* Mark Beyer,2002 Recounts the events related to the ill fated Apollo 13 mission and how the crew and mission control handled the in flight crisis *The Apollo 13 Mission* Adam Stone,2014-08-01 Shooting for the moon the Apollo 13 mission had to be aborted when an oxygen tank aboard the shuttle exploded in space This left the astronauts with limited power heat and water Watch the crew fight to survive in this graphic novel for eager readers

Apollo 13 Jim Lovell,Jeffrey Kluger,2000 The story of the American moon shot that almost ended in a fatal catastrophe told by the flight's commander offers a chronicle of courage heroism and adventure *Apollo 13 Mission Review* United States. Congress. Senate. Aeronautics and Space Sciences,1970 **Thirteen** Henry S. F. Cooper,2013-12-31 An exciting minute by minute account of the Apollo 13 flight based on mission control transcripts from Houston The New York Times On

the evening of April 13 1970 the three astronauts aboard Apollo 13 were just hours from the third lunar landing in history But as they soared through space two hundred thousand miles from Earth an explosion badly damaged their spacecraft With compromised engines and failing life support systems the crew was in incomparably grave danger Faced with below freezing temperatures a seriously ill crewmember and a dwindling water supply a safe return seemed unlikely Thirteen is the shocking and miraculous true story of how the astronauts and ground crew guided Apollo 13 back to Earth Expanding on dispatches written for the New Yorker Henry S F Cooper Jr brings readers unparalleled detail on the moment by moment developments of one of NASA s most dramatic missions **Lost in Space** Gary R. Bush, 2009 When 15 year old Ramon Garza s grades start to slip he s forced to help out his mother after school She s a food service worker at the NASA which is about to launch another rocket ship to the moon While there Ramon meets the crew and watches as Apollo 13 soars into space on April 11 1970 But only two days after the launch the mission goes horribly wrong

Unveiling the Magic of Words: A Report on "**The Apollo 13 Mission**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**The Apollo 13 Mission**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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The Apollo 13 Mission Introduction

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