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Biography Columbia  
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shuttle Columbia disaster // home  
rocket // last 13 minutes of kalpana  
chawla's life,  
YouTube Space Shuttle Columbia~~

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~~Columbia Disaster Space  
Studios Remembering Space Shuttle  
Columbia - 'In Their Own Words'~~

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Today in History: Space Shuttle  
Columbia disaster in 2003 that killed  
Kalpana Chawla ~~Columbia STS-107~~  
~~Never Forget USA: FLORIDA:~~  
~~PREPARATIONS FOR SPACE~~

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~~Columbia Disaster Space~~  
SHUTTLE COLUMBIA LAUNCH how  
did kalpana chawla die? | columbia  
disaster | explained | leo explained  
Man Falls from Space to Earth

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Final moments of doomed shuttle crew  
Space Shuttle Challenger Explosion  
(GRAPHIC) Inside Mission Control  
During STS-107 Columbia's Failed Re-



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~~entry and disaster HOW IT WORKS:  
The International Space Station NASA  
|| Astronaut kalpana Chawla Untold Story~~

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Columbia Disaster

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RARE! Space shuttle Columbia  
Explosion footage What Happened to

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~~Columbia Disaster Space~~  
Ham in Space? \*Sad Story of Ham\*

Space shuttle Discovery STS-128

Landing ~~Final Descent~~ ~~Last Flight of~~  
~~Spaceshuttle Columbia~~ ~~BBC~~

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Space Shuttle Columbia - Disaster  
Video [X-Plane 11]Kalpana's last  
message to India Anniversary of  
Columbia space shuttle accident

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Kalpana Chawla - The First Woman Of  
Indian Origin In Space | Motivational  
Story For Kids

| Sad Story Of Kalpna Chawla

kalpana chawla- Columbia disaster in  
kannada Space Shuttle Columbia

Disaster Pt 3: The aftermath - BBC

Kalpana Chawla Biography Columbia

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## Disaster Columbia Disaster Space

The tragic loss of the space shuttle Columbia killed seven astronauts. One of those, Kalpana Chawla, was the first Indian-born woman in space. Born in Karnal, India, on July 1, 1961, Chawla was the...

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Kalpana Chawla: Biography &  
Columbia Disaster | Space

Kalpana Chawla was an American astronaut, engineer, and the first woman of Indian origin to go to space. She first flew on Space Shuttle Columbia in 1997 as a mission specialist and primary robotic arm

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operator. In 2003, Chawla was one of the seven crew members who died in the Space Shuttle Columbia disaster when the spacecraft disintegrated during its re-entry into the Earth's atmosphere. Chawla was posthumously awarded the Congressional Space Medal of Honor,

# Online Library Kalpana Chawla Biography and several streets, universities,

Kalpana Chawla - Wikipedia  
Biography about kalpana chawla- The  
First Indian woman in Space Kalpana  
Chawla was an American astronaut  
engineer. She was the first Indian  
woman who touched the sky. Many of

# Online Library Kalpana Chawla Biography

you already heard of the life story and biography of Kalpana Chawla known as "India's Daughter".

Kalpana Chawla Biography: The First Indian Woman who ...

Kalpana Chawla Biography Kalpana Chawla was an Indian American



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astronaut and space shuttle mission specialist and the first Indian woman to go into space. She was one of seven crew members killed in the Columbia spacecraft disaster. His talent, dedication and his contribution to the whole world will always be unforgettable.

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## Columbia Disaster Space

Kalpana Chawla Biography The Great  
Biography

Kalpana Chawla was American  
astronaut who died in the Space  
Shuttle "Columbia" disaster. Born in  
Karnal, India, she was the first woman  
of Indian origin to go to space. A

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tomboy from the beginning, she developed a passion for airplanes in her early childhood.

Kalpana Chawla Biography - Facts,  
Childhood, Family Life ...

Kalpana Chawla, an Indian-American astronaut and the first Indian woman in

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space, was one of the seven astronauts who lost their lives in the Space Shuttle Columbia disaster on February 1, 2003. A role model for many young women in India and around the world, Kalpana will always be remembered for her incredible journey from Karnal, where she was

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born, to NASA, where she fulfilled her dream of reaching the stars.

Kalpana Chawla Died On 1st February  
2003 Full History ...

Aboard Space Shuttle Columbia over  
Texas, U.S. Death Cause: Space  
Shuttle Columbia disaster (Accident)

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which killed all 7 crew members: Age  
(as on 1 February 2003) 40 Years:  
Zodiac sign/Sun sign: Cancer:  
Nationality: American: Hometown:  
Texas, U.S. School: Tagore Bal  
Niketan School, Karnal:  
College/University: Dyal Singh  
College, Karnal, Haryana

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## Columbia Disaster Space

Kalpana Chawla (Astronaut) Age,  
Biography, Husband, Facts ...

Kalpana Chawla Biography Columbia  
Disaster E. 10 Years After Columbia  
Disaster Family Members Remember  
The Denver Post. Columbia Disaster  
What Hened Nasa Learned E. 15

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Years Since Columbia Disaster Uta  
Remembers Kalpana Chawla One Of  
Own Cbs Dallas Fort Worth.

Kalpana Chawla Disaster - Images All  
Disaster Msimages.Org  
Not to be confused with Space Shuttle  
Challenger disaster. The Space



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Shuttle Columbia disaster was a fatal incident in the United States space program that occurred on February 1, 2003, when the Space Shuttle Columbia (OV-102) disintegrated as it reentered the atmosphere, killing all seven crew members.

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Space Shuttle Columbia disaster -  
Wikipedia

Columbia disaster, breakup of the U.S. space shuttle orbiter Columbia on February 1, 2003, that claimed the lives of all seven astronauts on board just minutes before it was to land at the Kennedy Space Center in Florida.

# Online Library Kalpana Chawla Biography Columbia breaking up, 2003 Space

Columbia disaster | History & Crew |  
Britannica

The first Indian-American scientist /  
NASA astronaut, she was one of  
seven crew members killed in the  
Space Shuttle Columbia disaster.

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Montu is the affectionate form of Kalpana Chawla's family name, Montu; the name Kalpana, meaning "imagination" in Hindi, three-year old Montu chose for herself.

Kalpana Chawla - Biography - IMDb  
The first Indian-American astronaut

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and the first Indian woman in space;  
Kalpana Chawla was among those  
seven crew members who were killed  
in the Space Shuttle Columbia disaster  
which took place on February 1, 2003.  
This amazing girl still continues to  
inspire millions of women from each  
and every corner of the world.

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## Columbia Disaster Space

Kalpana Chawla - What Happened To  
This Indian Astronaut ...

Born in Karnal, Haryana, Chawla died  
on February 1, 2003 over the southern  
United States when Space Shuttle  
Columbia and the crew perished  
during entry into atmosphere, 16

# Online Library Kalpana Chawla Biography

minutes before the scheduled landing.

'Columbia space shuttle accident that killed Kalpana ...

Kalpana Chawla - Wikipedia. These particularly small enterprises lack access to markets and hence do not have predictable income and growth 3.

# Online Library Kalpana Chawla Biography

Chawla is survived by her husband of almost 20 years before her death, J. Several documentaries have been produced about the Columbia crew.

KALPANA CHAVLA PDF - Education  
PDF Buddies  
Some Lesser Known Facts About



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Kalpana Chawla Kalpana's parents hail from the Multan district of West Punjab (now Pakistan). When her father, Banarsi Lal, Chawla was leaving his hometown of Sheikhopura, communal riots broke out. He was one of the few survivors who managed to reach India safely but without any

# Online Library Kalpana Chawla Biography possessions. Columbia Disaster Space

Kalpana Chawla (Astronaut) Age,  
Biography, Husband, Facts ...

NASA [Kalpana Chawla Biography](#) [Kalpana Chawla Husband](#) [Kalpana Chawla Facts](#)

Kalpana Chawla Real Space Story  
Truth Behind Columbia Disaster -  
Duration: 7:51. MyIndia 1,443,060

# Online Library Kalpana Chawla Biography views Columbia Disaster Space

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Chawla: Biography & Columbia  
Disaster|kalpana chawla death  
Kalpana Chawla was the first Indian-  
born woman to travel to space. She  
was born on March 17, 1962, and

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completed her Bachelor of Space  
Engineering in Aeronautical  
engineering from Punjab Engineering  
College in India and later moved to the  
United States in 1982.

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The untold story of a national trauma—NASA's Challenger explosion—and what really happened to America's Teacher in Space, illuminating the tragic cost of humanity setting its sight on the stars You've seen the pictures. You know what happened. Or do you? On January 28,

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1986, NASA's space shuttle Challenger exploded after blasting off from Cape Canaveral. Christa McAuliffe, America's "Teacher in Space," was instantly killed, along with the other six members of the mission. At least that's what most of us remember. Kevin Cook tells us what

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really happened on that ill-fated, unforgettable day. He traces the pressures—leading from NASA to the White House—that triggered the fatal order to launch on an ice-cold Florida morning. Cook takes readers inside the shuttle for the agonizing minutes after the explosion, which the

# Online Library Kalpana Chawla Biography

astronauts did indeed survive. He uncovers the errors and corner-cutting that led an overconfident space agency to launch a crew that had no chance to escape. But this is more than a corrective to a now-dimming memory. Centering on McAuliffe, a charmingly down-to-earth civilian on



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the cusp of history, *The Burning Blue* animates a colorful cast of characters: a pair of red-hot flyers at the shuttle's controls, the second female and first Jewish astronaut, the second Black astronaut, and the first Asian American and Buddhist in space. Drawing vivid portraits of Christa and the astronauts,

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Cook makes readers forget the fate they're hurtling toward. With drama, immediacy, and shocking surprises, he reveals the human price the Challenger crew and America paid for politics, capital-P Progress, and the national dream of "reaching for the stars."

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## Chawla Biography

### Columbia Disaster Space

Human space flight is still in its infancy; spacecraft navigate narrow tracks of carefully computed ascent and entry trajectories with little allowable deviation. Until recently, it remained the province of a few governments. As private industry and

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more countries join in this great enterprise, we must share findings that may help protect those who venture into space. In the history of NASA, this approach has resulted in many improvements in crew survival. After the Apollo 1 fire, sweeping changes were made to spacecraft design and to

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the way crew rescue equipment was positioned and available at the launch pad. After the Challenger accident, a jettisonable hatch, personal oxygen systems, parachutes, rafts, and pressure suits were added to ascent and entry operations of the space shuttle. As we move toward a time

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When human space flight will be commonplace, there is an obligation to make this inherently risky endeavor as safe as feasible. Design features, equipment, training, and procedures all play a role in improving crew safety and survival in contingencies. In aviation, continual improvement in

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oxygen systems, pressure suits, parachutes, ejection seats, and other equipment and systems has been made. It is a core value in the aviation world to evaluate these systems in every accident and pool the data to understand how design improvements may improve the chances that a crew

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will survive in a future accident. The Columbia accident was not survivable. After the Columbia Accident Investigation Board (CAIB) investigation regarding the cause of the accident was completed, further consideration produced the question of whether there were lessons to be



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learned about how to improve crew survival in the future. This investigation was performed with the belief that a comprehensive, respectful investigation could provide knowledge that can protect future crews in the worldwide community of human space flight. Additionally, in the course of the

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Investigation, several areas of research were identified that could improve our understanding of both nominal space flight and future spacecraft accidents. This report is the first comprehensive, publicly available accident investigation report addressing crew survival for a human

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spacecraft mishap, and it provides key information for future crew survival investigations. The results of this investigation are intended to add meaning to the sacrifice of the crew's lives by making space flight safer for all future generations. Many findings, conclusions, and recommendations

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have resulted from this investigation that will be valuable both to spacecraft designers and accident investigators. This report provides the reader an expert level of knowledge regarding the sequence of events that contributed to the loss of Columbia's crew on February 1, 2003 and what

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can be learned to improve the safety of human space flight for all future crews. It is the team's expectation that readers will approach the report with the respect and integrity that the subject and the crew of Columbia deserve.

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This life biography of the great Indian female astronaut [Kalpana chawla], teaches us a very inspiring thoughts. Such as [never give up] and [nothing is impossible]. If we can than we can do, she never thought that she cross the limits of the space and become first female Indian astronaut. She only

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tried and tried but never get shy. She died but remained her image in front of the whole world. If every female get inspired from this story then "women empowerment" will become successfull. Kalpana Chawla (March 17, 1962 - February 1, 2003) was an American astronaut, engine er, and

# Online Library Kalpana Chawla Biography

the first woman of Indian descent to go to space. She first flew on Space Shuttle Columbia in 1997 as a mission specialist and primary robotic arm operator. In 2003, Chawla was one of the seven crew members who died in the Space Shuttle Columbia disaster when the spacecraft disintegrated



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during its re-entry into the Earth's atmosphere. Chawla was posthumously awarded the Congressional Space Medal of Honour, and several streets, universities and institutions have been named in her honour. The late astronaut is recognized as a national

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Nearly every day there's another news story or pop cultural anecdote related to feminism and women's rights. #YesAllWomen, conversations around consent, equal pay, access to contraception, and a host of other

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issues are foremost topics of conversation in American (and worldwide) media right now. Today's teens are encountering these issues from a different perspective than any generation has had before, but what's often missing from the current discussion is an understanding of how

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we've gotten to this place. Fight Like a Girl will familiarize readers with the history of feminist activism, in an effort to celebrate those who paved the way and draw attention to those who are working hard to further the cause of women's rights. Profiles of both famous and lesser-known feminists

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will be featured alongside descriptions of how their actions affected the overall feminist cause, and unique portraits (artist's renderings) of the feminists themselves. This artistic addition will take the book beyond simply an informational text, and make it a treasure of a book.

# Online Library Kalpana Chawla Biography Columbia Disaster Space

Rick Husband wanted to be an astronaut since his fourth birthday, but it wasn't always for the right reasons. Initially, he thought it would be neat . . . cool . . . a fun thing to do. It wasn't until he came to a spiritual crossroads and was able to give that dream up to

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discover the true desires of his heart before he actually got into the space shuttle program at NASA. Three failed attempts didn't daunt this driven pilot- and the fourth interview process, though lengthy and difficult, proved successful for him. Husband's years at NASA served not only to develop his

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Integrity and character, but also to increase his faith in a Creator that could not be denied in the vastness of space. His story is not only inspirational but exhilarating and invigorating, as readers will witness the life of a man who consistently pursued the desires of his heart even



# Online Library Kalpana Chawla Biography as he served a faithful God.

Born into a conservative family in a provincial town, in Haryana, Kalpana Chawla dreamt of the stars. Through sheer hard work, indomitable intelligence and immense faith in herself, she became the first indian

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Woman to travel into space, and most remarkably to travel twice. A shining career was tragically cut short in the recent Columbia mishap. In this well researched biography, journalist Padmanabhan talks to people who knew her, family and friends at Karnal, and colleagues at Nasa, to produce a

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A moving portrait of a woman whose life was unique.

In *“Columbia: Final Voyage”* aerospace writer Philip Chien, who has over 20 years’ experience covering the US space program, provides a unique insight into the crew

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members who lost their lives in the Columbia disaster. Chien interviewed all seven crew members several times and got to know them as individuals. He reviews in detail their training, their scientific work and other activities during their successful 16-day flight, the background of the accident itself

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and a detailed first-hand account of what happened that fateful day in February 2003. The author provides a comprehensive and personal look at both the Columbia astronauts and the STS-107 mission, together with a behind-the-scenes account of other people involved in the mission and

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their personal reactions to the  
accident. Forward by Jonathan B.  
Clark, widower of Columbia astronaut  
Laurel Clark Introduction by Apollo 11  
astronaut Buzz Aldrin

When Valentina Tereshkova blasted  
off aboard Vostok 6 on June 16, 1963,

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She became the first woman to rocket into space. It would be 19 years before another woman got a chance—cosmonaut Svetlana Savitskaya in 1982—followed by American astronaut Sally Ride a year later. And by breaking the stratospheric ceiling, these women

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forged a path for many female astronauts, cosmonauts, and mission specialists to follow. In *Women in Space*, author Karen Bush Gibson profiles 23 pioneers, all of whom achieved greatness in orbit. Read about Eileen Collins, the first woman to command the Space Shuttle; Peggy



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Whitson, who has logged more than a year in orbit aboard the International Space Station; Mae Jemison, the first African American woman in space; as well as astronauts from Japan, Canada, Italy, South Korea, France, and more. Learn, too, about the Mercury 13, American women

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selected by NASA in the late 1950s to train for spaceflight. Though they matched and sometimes surpassed their male counterparts in performance, they were ultimately denied the opportunity to head out to the launching pad. Their story, and the stories of pilots, physicists, and

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doctors who followed them, demonstrate the vital role women have played in the quest for scientific understanding. Karen Bush Gibson is the author of *Women Aviators*, *Native American History for Kids*, and three dozen other books for young readers. She lives in Norman, Oklahoma.

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Chawla Biography

Columbia Disaster Space

Die Entstehung des Sikhismus durch  
Guru Nanak im Indien des 15.

Jahrhunderts hat zu einer  
revolutionären Liberalisierung und  
Hebung des Status von Frauen  
geführt. Durch die Zeit hindurch haben  
Sikh-Frauen Erweiterungen, aber auch

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Begrenzungen ihrer Genderrollen erlebt und kommen in diesem Werk diesbezüglich erstmals selbst zu Wort. Sie sprechen über ihren Status, ihre Rolle und ihr Selbstverständnis als Frau in der Gesellschaft und fordern aufgrund des eingetretenen Verlustes ihrer Gleichberechtigung in vielen

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Bereichen des Lebens die erneute Rückkehr zur ursprünglichen Lehre der Gurus. Die Autorin fokussiert dabei insbesondere die Situation von Sikh-Frauen in Indien und Österreich.

This book explains how the achievements of the Space Shuttle,

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the world's first reusable manned spacecraft, were built on the foundation of countless technical challenges. Through thick and thin, the Space Shuttle remained the centerpiece of the American human spaceflight program for three decades. In addition to deploying satellites,

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planetary probes and, of course, the Hubble Space Telescope, it delivered astronauts to the Mir space station and assembled and sustained the International Space Station. Yet the path to these incredible achievements was never an easy one, with some obstacles resulting in the loss of life



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and other major consequences that plagued the fleet throughout its operational career. The book adopts a challenge-by-challenge approach, focusing on specific difficulties and how (if at all) they were fully overcome. Going beyond the technical issues, it relates the human stories of

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each incident and how changes were effected in order to make the shuttle an exceptionally safer – though still experimental – flying machine.

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