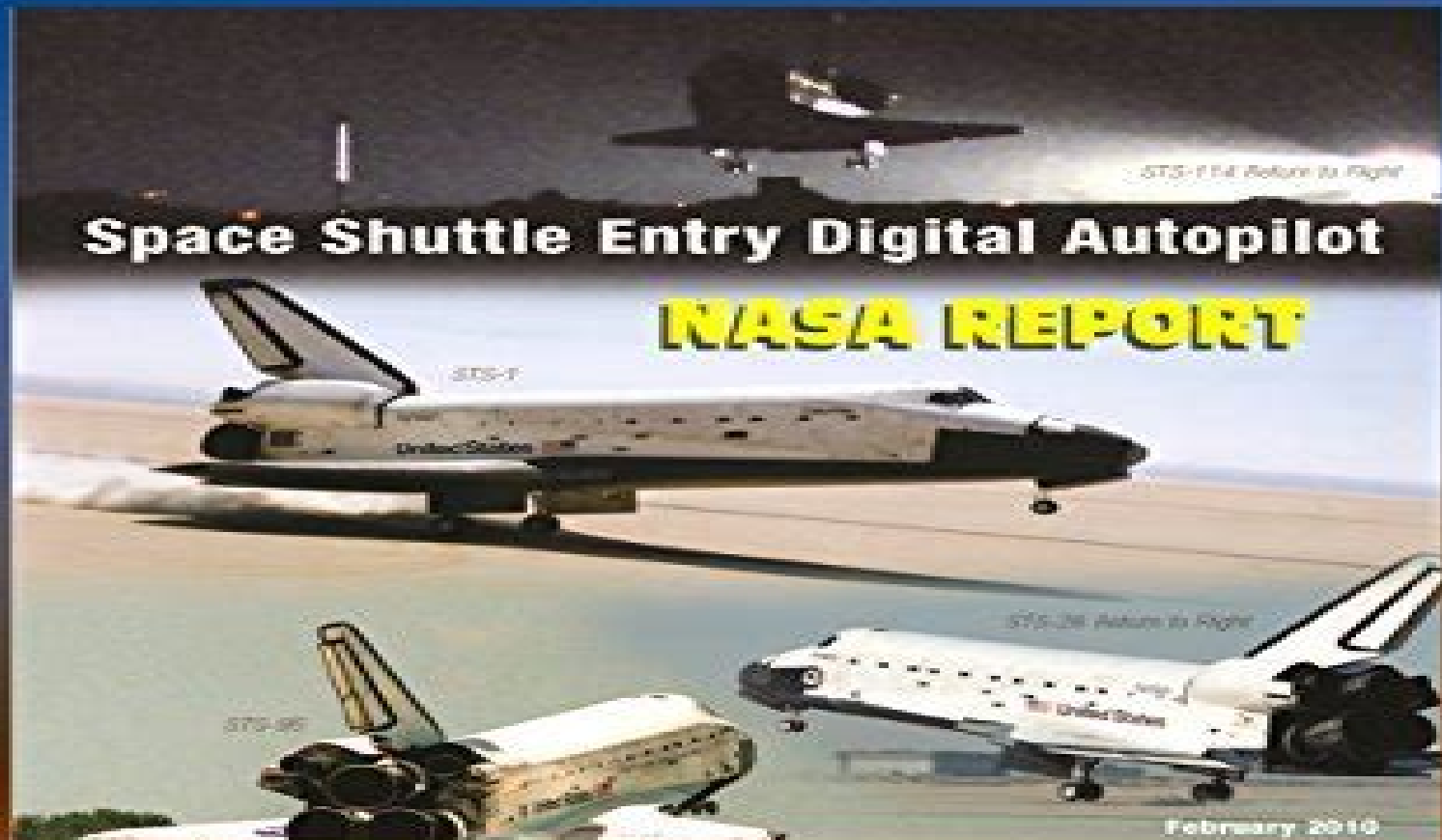




**Orbiter Flight Control Systems, GNC, Guidance
Techniques, Sensors, RTLS, RCS
History from Development and STS-1 through
Post-Columbia Accident**

Nasa Report Space Shuttle Columbia

Marcia S. Smith



Nasa Report Space Shuttle Columbia:

NASA's Space Shuttle Columbia Marcia S. Smith, 2003 NASA's Space Shuttle Columbia, 2003 NASA's space shuttle Columbia broke apart on February 1 2003 as it returned to Earth from a 16 day science mission All seven astronauts aboard were killed NASA created the Columbia Accident Investigation Board CAIB chaired by Adm Ret Harold Gehman to investigate the accident The Board released its report available at <http://www.caib.us> on August 26 2003 concluding that the tragedy was caused by technical and organizational failures The CAIB report included 29 recommendations 15 of which the Board specified must be completed before the shuttle returns to flight status This report provides a brief synopsis of the Board's conclusions recommendations and observations Further information on Columbia and issues for Congress are available in CRS Report RS21408 This report will not be updated *Columbia Accident Investigation Board Report* United States. Columbia Accident Investigation Board, National Aeronautics and Space Administration, 2003 CD ROM accompanying vol 1 contains text of vol 1 in PDF files and six related motion picture files in Quicktime format *Columbia Crew Survival Investigation Report* United States. National Aeronautics and Space Administration, 2008 NASA commissioned the Columbia Accident Investigation Board CAIB to conduct a thorough review of both the technical and the organizational causes of the loss of the Space Shuttle Columbia and her crew on February 1 2003 The accident investigation that followed determined that a large piece of insulating foam from Columbia's external tank ET had come off during ascent and struck the leading edge of the left wing causing critical damage The damage was undetected during the mission The CAIB's findings and recommendations were published in 2003 and are available on the web at <http://caib.nasa.gov> NASA responded to the CAIB findings and recommendations with the Space Shuttle Return to Flight Implementation Plan 1 Significant enhancements were made to NASA's organizational structure technical rigor and understanding of the flight environment The ET was redesigned to reduce foam shedding and eliminate critical debris In 2005 NASA succeeded in returning the space shuttle to flight In 2010 the space shuttle will complete its mission of assembling the International Space Station and will be retired to make way for the next generation of human space flight vehicles the Constellation Program The Space Shuttle Program recognized the importance of capturing the lessons learned from the loss of Columbia and her crew to benefit future human exploration particularly future vehicle design The program commissioned the Spacecraft Crew Survival Integrated Investigation Team SCSIIT The SCSIIT was asked to perform a comprehensive analysis of the accident focusing on factors and events affecting crew survival and to develop recommendations for improving crew survival for all future human space flight vehicles To do this the SCSIIT investigated all elements of crew survival including the design features equipment training and procedures intended to protect the crew This report documents the SCSIIT findings conclusions and recommendations PDF Executive summary **Scientific and Technical Aerospace Reports**, 1982 **A Review of NASA's Space Launch System** United States. Congress. House. Committee on Science, Space, and Technology (2011), 2011

Columbia Accident Investigation Board Report United States. Columbia Accident Investigation Board,2003 Vols 2 6 of the CAIB s Final Report contain appendices that provide the supporting documentation for the main text of the Final Report contained in Vol 1 which was released on Aug 26 2003 These appendix materials were working documents They contain a number of conclusions and proposed recommendations several of which were adopted by the CAIB in Vol 1 The other conclusions and proposed recommendations drawn in Vols 2 6 do not necessarily reflect the views of the CAIB but are included for the record When there is conflict Vol 1 takes precedence It alone is the CAIB s official statement **NASA's Space Shuttle Program** ,2005 On February 1 2003 NASA s Space Shuttle Columbia broke apart while returning to Earth from a 16 day science mission in orbit All seven astronauts six Americans and one Israeli were killed An investigation board issued its report on the accident on August 26 2003 A synopsis is provided in CRS Report RS21606 This report summarizes the Columbia tragedy and the investigation board s report and discusses issues for Congress including the Return to Flight RTF effort and the future of the shuttle NASA currently hopes RTF will occur during a July 13 31 2005 launch window More information on the space shuttle is available in CRS Issue Brief IB93062 This report is updated regularly *NASA Report to Educators* ,1981 **Columbia Accident Investigation Board Report** United States. Columbia Accident Investigation Board,2003 Vols 2 6 of the CAIB s Final Report contain appendices that provide the supporting documentation for the main text of the Final Report contained in Vol 1 which was released on Aug 26 2003 These appendix materials were working documents They contain a number of conclusions and proposed recommendations several of which were adopted by the CAIB in Vol 1 The other conclusions and proposed recommendations drawn in Vols 2 6 do not necessarily reflect the views of the CAIB but are included for the record When there is conflict Vol 1 takes precedence It alone is the CAIB s official statement

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