

1. Record Nr.	UNINA9910970917603321
Autore	Pelton Joseph N
Titolo	Space exploration and astronaut safety / / by Joseph N. Pelton ; with Peter Marshall
Pubbl/distr/stampa	Reston, Va., : American Institute of Aeronautics and Astronautics, c2006
ISBN	1-60086-835-5 1-60086-834-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (399 p.)
Altri autori (Persone)	MarshallPeter
Disciplina	363.12/472
Soggetti	Astronautics - United States - Planning Manned space flight - United States - Safety measures Outer space Exploration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""COVER""; ""TITLE""; ""COPYRIGHT""; ""FOREWORD""; ""TABLE OF CONTENTS""; ""ACKNOWLEDGMENTS""; ""CHAPTER 1 A New Beginningfor U.S. Space Exploration?""; ""CHAPTER 2 U.S. Astronaut Programs:Past, Present, and Future-fromMercury to ProjectConstellation"""; ""CHAPTER 3 Reexamining the SpaceShuttle's Purpose, Mission, and Technology-BasedSafety Problems""; ""CHAPTER 4 Review of the Managementand Institutional Issues""; ""CHAPTER 5 International Space Station-Status and Vulnerabilities""; ""CHAPTER 6 NASA's Unsuccessful X-Projectsand the Prospects forNew Private Space VehicleDevelopment"" ""CHAPTER 7 International Space Programsand Launch Systems""" CHAPTER 8 Project Constellation"; ""CHAPTER 9 Lessons Learned in Space Safetyand Ongoing Issues""; ""CHAPTER 10 A Better and BrighterU.S. Space Program:A New Vision for the Future""; ""APPENDIX A Key Background Facts inSpace Flight""; ""APPENDIX B Glossary""; ""APPENDIX C Detailed Technical Reviewof Shuttle Vulnerabilities""; ""APPENDIX D Detailed Technical Review ofISS Vulnerabilities""; ""INDEX""; ""SUPPORTING MATERIALS""
Sommario/riassunto	Part history, part technology, and part policy analysis, this one-of-a-kind, landmark book reviews the history of NASA's space exploration

program, its astronaut safety program, the present status of the Space Shuttle and the International Space Station, and the options and strategic opportunities that present themselves as NASA enters its next phase of space exploration with Project Constellation. Written by one of the foremost experts on space policy, Space Exploration and Astronaut Safety, presents in a highly readable format the state of today's space technology, along with the concerns about safety in space exploration as it applies to current and future programs, and whether these issues can be reconciled and translated into a viable future space policy. The book thoroughly explores NASA's options and how these options are tempered and influenced by astronaut safety considerations as well as by uncertain Congressional funding and complex organizational management issues. It also considers the impact of international participation and the increasing prospect of the privatization of space travel. Shuttle tragedies, interviews with key experts, surveys, and extensive research on the Shuttle, ISS, and related NASA space safety programs, the author lays out a comprehensive presentation on where space exploration has been, where it stands today, where it is going, and where it has the potential to go. Decision makers in government (especially those involved with NASA policy and safety), members of space agencies around the world, aerospace scientists and engineers, space enthusiasts, and academicians will all find this book an indispensable and enlightening guide. Investment in the future of space exploration will cost billions of dollars; this book provides ample background and the impetus to enable policy makers, the aerospace community, and the general public to make balanced, educated decisions on how those dollars can best be spent.

---