Record Nr. UNINA9910457208903321 Limiting future collision risk to spacecraft [[electronic resource]]: an **Titolo** assessment of NASA's meteoroid and orbital debris programs // National Research Council of the National Academies Washington, D.C., : National Academies Press, 2011 Pubbl/distr/stampa **ISBN** 1-283-37640-7 9786613376404 0-309-21975-2 Descrizione fisica 1 online resource (180 p.) Disciplina 629.4 Soggetti Space vehicle accidents - Prevention Space vehicles - Meteoroid protection Space debris Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "Committee for the Assessment of NASA's Orbital Debris Programs, Aeronautics and Space Engineering Board, Division on Engineering and Physical Sciences." Nota di bibliografia Includes bibliographical references. ""Front Matter""; ""Preface""; ""Acknowledgment of Reviewers""; Nota di contenuto ""Contents"": ""Summary"": ""1 Introduction and Historical Background"": ""2 Orbital Debris Environment: Detection and Monitoring""; ""3 Orbital Debris Modeling and Simulation""; ""4 The Meteoroid Environment and Its Effects on Spacecraft""; ""5 Risk Assessment and Uncertainty""; ""6 Spacecraft Protection in the MMOD Environment""; ""7 Mitigation of Orbital Debris""; ""8 Hazards Posed by Reentry of Orbital Debris""; ""9 Conjunction Assessment Risk Analysis and Launch Collision Avoidance""; ""10 Spacecraft Anomalies"" ""11 Issues External to NASA""""12 Management and Organizational Issues""; ""13 Preparing for the Future""; ""14 Compiled List of Findings and Recommendations""; ""Appendixes""; ""Appendix A: Letter of Request""; ""Appendix B: Statement of Task""; ""Appendix C: Committee and Staff Biographical Information""; ""Appendix D: Acronyms""; ""Appendix E: Glossary""; ""Appendix F: Reprinted Workshop Report""