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| 1. Record Nr.           | UNINA9910797016803321   |
| Autore                  | Liu Tai-Ping <1945->  |
| Titolo                  | Shock waves in conservation laws with physical viscosity // Tai-Ping Liu, Yanni Zeng  |
| Pubbl/distr/stampa      | Providence, Rhode Island : , : American Mathematical Society, , 2014 ©2014  |
| ISBN                    | 1-4704-2032-5   |
| Descrizione fisica      | 1 online resource (180 p.)  |
| Collana                 | Memoirs of the American Mathematical Society, , 1947-6221 ; ; Volume 234, Number 1105 (fifth of 5 numbers)  |
| Disciplina              | 531/.1133   |
| Soggetti                | Conservation laws (Mathematics)<br>Shock waves - Mathematics<br>Green's functions   |
| 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.  |
| Nota di contenuto       | Chapter 1. Introduction -- Chapter 2. Preliminaries -- Chapter 3. Green's functions for Systems with Constant Coefficients -- Chapter 4. Green's Function for Systems Linearized Along Shock Profiles -- Chapter 5. Estimates on Green's Function -- Chapter 6. Estimates on Crossing of Initial Layer -- Chapter 7. Estimates on Truncation Error -- Chapter 8. Energy Type Estimates -- Chapter 9. Wave Interaction -- Chapter 10. Stability Analysis -- Chapter 11. Application to Magnetohydrodynamics -- References. |

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| 2. Record Nr.           | UNINA9910957200103321  |
| Titolo                  | Evaluating the biological potential in samples returned from planetary satellites and small solar system bodies : framework for decision making // Task Group on Sample Return from Small Solar System Bodies, Space Studies Board, Commission on Physical Sciences Mathematics and Applications, National Research Council  |
| Pubbl/distr/stampa      | Washington, D.C., : National Academy Press, 1998   |
| ISBN                    | 9786610186907<br>9780309173711<br>030917371X<br>9781280186905<br>1280186909<br>9780309592048<br>0309592046<br>9780585025421<br>0585025428  |
| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (116 p.)   |
| Disciplina              | 576.8/39   |
| Soggetti                | Planetary quarantine<br>Exobiology<br>Space microbiology   |
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| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
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| Nota di bibliografia    | Includes bibliographical references.   |
| Nota di contenuto       | Evaluating the Biological Potential in Samples Returned from Planetary Satellites and Small Solar Sy... -- Copyright -- Foreword -- Preface -- Acknowledgment of Reviewers -- Contents -- Executive Summary -- STUDY APPROACH -- FINDINGS -- Planetary Satellites -- Asteroids -- Comets -- Cosmic Dust -- CONCLUSIONS AND RECOMMENDATIONS -- Containment of Returned Samples -- Handling of Returned Samples -- Scientific Investigations to Reduce Uncertainty -- REFERENCES -- 1 Introduction -- SCOPE AND APPROACH OF THIS STUDY -- CURRENT UNDERSTANDING OF ORIGINS, CONTINUANCE, AND SURVIVAL OF |

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 Origins of Self-replicating Life Forms -- Viability of Microorganisms --  
 Factors That Influence the Survival of Metabolically Active Cells --  
 Factors That Affect the Survival of Dormant Microorganisms --  
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 -- REFERENCES -- 2 Natural Influx and Cross-Contamination --  
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 -- SUMMARY -- REFERENCES -- 4 Asteroids and Meteorites --  
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 and Melting -- COMPOSITION -- Physical Characteristics -- Chemical  
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 QUARANTINE FACILITIES -- TESTING OF RETURNED SAMPLES --  
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 Sketches of Task Group Members -- B Letter of Request -- C Additional  
 Perspectives on Contamination from Space -- CLAY-BASED LIFE --  
 PANSPERMIA -- ARTIFACTS IN METEORITES.  
 REFERENCES -- D Planetary Protection Policy-NASA and COSPAR --  
 NASA'S POLICY -- Cospar Policy -- REFERENCES -- E Glossary.

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Sommario/riassunto

For the first time since the Apollo program, NASA and space agencies  
 abroad have plans to bring samples to Earth from elsewhere in the  
 solar system. There are missions in various stages of definition to  
 gather material over the next decade from Mars, an asteroid, comets,

the satellites of Jupiter, and the interplanetary dust. Some of these targets, most especially Jupiter's satellites Europa and Ganymede, now appear to have the potential for harboring living organisms. This book considers the possibility that life may have originated or existed on a body from which a sample might be taken and the possibility that life still exists on the body either in active form or in a form that could be reactivated. It also addresses the potential hazard to terrestrial ecosystems from extraterrestrial life if it exists in a returned sample. Released at the time of the International Committee on Space Research General Assembly, the book has already established the basis for plans for small body sample returns in the international space research community.

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