

1. Record Nr.	UNINA9910777421803321
Titolo	Failed stars and super planets [[electronic resource]] : a report based on the January 1998 Workshop on Substellar-Mass Objects // Steering Group for the Workshop on Substellar-Mass Objects, Space Studies Board, Commission on Physical Sciences, Mathematics, and Applications, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1998
Descrizione fisica	1 online resource (74 p.)
Disciplina	523.88
Soggetti	Planets Stars
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	<p>""Failed Stars and Super Planets""; ""Copyright""; ""Preface""; ""Foreword""; ""Contents""; ""Executive Summary""; ""THE WORKSHOP ON SUBSTELLAR-MASS OBJECTS""; ""FINDINGS""; ""Status of Current Research Activities""; ""The Most Compelling Issues for Near-Term Study""; ""Contributions to Broader Scientific Goals""; ""Opportunities for Interdisciplinary Research""; ""The Contribution of Studies of SMOs to Achieving Long-Term Scientific Priorities""; ""CONCLUDING REMARKS""; ""1 Detection of Substellar-Mass Objects""; ""STATUS OF CURRENT INDIRECT SEARCHES""; ""The Radial-Velocity Technique"" ""Astrometric, Photometric, and Microlensing Techniques""""DIRECT DETECTION OF SMOs""; ""Isolated Brown Dwarfs""; ""Companion Brown Dwarfs""; ""2 Observational Characterization of Nearby SMOs""; ""CURRENT STATE OF OBSERVATIONS""; ""Abundance of SMOs""; ""Spectroscopic Studies of SMOs""; ""3 Theoretical Models of SMO Structure and Atmosphere""; ""CURRENT STATUS OF MODELS""; ""4 Formation of SMOs""; ""STARLIKE AND PLANETLIKE FORMATION""; ""Observational Evidence""; ""Formation of Close-In SMOs""; ""Relationship to Terrestrial Planets"" ""5 Statistical Detections, Galactic Structure, and the Mass Content of the Universe""""INTRODUCTION TO THE DARK-MATTER PROBLEM"";</p>

""CURRENT UNDERSTANDING OF THE MASS FUNCTIONS OF LOW-MASS STARS AND SMOS""; ""MICROLENSING DETERMINATION OF THE SMO MASS FUNCTION""; ""DETECTING PLANETS VIA MICROLENSING""; ""6 Findings and Future Needs""; ""STATUS OF CURRENT RESEARCH ACTIVITIES""; ""THE MOST COMPELLING ISSUES FOR NEAR-TERM STUDY""; ""Detection Strategies""; ""Spectroscopic Studies of Nearby SMOs""; ""CONTRIBUTIONS TO BROADER SCIENTIFIC GOALS"" ""Modeling of the Atmospheres and Interiors of SMOs""""Testing Models of the Formation of SMOs""; ""Understanding the Stability and Evolution of Multiplanet Systems""; ""OPPORTUNITIES FOR INTERDISCIPLINARY RESEARCH""; ""THE CONTRIBUTION OF STUDIES OF SMOS TO ACHIEVING LONG-TERM SCIENTIFIC PRIORITIES""; ""Microlensing and the Statistical Search for SMOs""; ""CONCLUDING REMARKS""
