

1. Record Nr.	UNINA9910961316203321
Titolo	Macropods : the biology of kangaroos, wallabies and rat-kangaroos // editors, Graeme Coulson and Mark Eldridge
Pubbl/distr/stampa	Collingwood, Vic., : CSIRO Pub., c2010
ISBN	9786613155528 9780643101845 0643101845 9781283155526 1283155524 9780643098183 0643098186
Edizione	[1st ed.]
Descrizione fisica	1 online resource (423 p.)
Altri autori (Persone)	CoulsonG. M (Graeme M.) EldridgeMark Derek Bruce
Disciplina	599.2
Soggetti	Kangaroos - Australia Wallabies - Australia Macropus
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 indexes.
Nota di contenuto	pt. 1. Genetics, reproduction and development -- pt. 2. Morphology and physiology -- pt. 3. Ecology -- pt. 4. Management.
Sommario/riassunto	Brings together the many recent advances in the biology of this diverse group of marsupials.

2. Record Nr.	UNINA9910957774803321
Titolo	Advanced power sources for space missions / / Committee on Advanced Space Based High Power Technologies, Energy Engineering Board, Commission on Engineering and Technical Systems, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1989
ISBN	9786610214396 9781280214394 1280214392 9780309594868 0309594863 9780585085272 0585085277
Edizione	[1st ed.]
Descrizione fisica	1 online resource (154 p.)
Altri autori (Persone)	GavinJoseph G
Disciplina	629.47/44
Soggetti	High technology Space vehicles - Nuclear power plants Space vehicles - Auxiliary power supply Space vehicles - Propulsion systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index. Committee chairman: Joseph G. Gavin.
Nota di bibliografia	Bibliography: p.101-103.
Nota di contenuto	Advanced Power Sources for Space Missions -- Copyright -- Preface -- Contents -- Executive Summary -- 1 Introduction -- 2 Space Power Requirements and Selection Criteria -- OVERVIEW OF SPACE-BASED POWER REQUIREMENTS -- SDI Power Requirements for Housekeeping, Alert, and Burst Modes -- Requirements of Military Missions Other than SDI -- Requirements of Civil Missions -- Commonality of Requirements Among Civil and Military Missions -- APPROACHES TOWARD SELECTING SPACE POWER TECHNOLOGIES TO MEET SDI REQUIREMENTS -- Critical Issue Areas -- System Considerations -- Qualification of Power-Conditioning Subsystems and Components -- Influence of SDI

Survivability and Vulnerability Criteria -- Findings, Conclusions, and Recommendation -- 3 Space Power System Options and Selection Constraints -- SUMMARY OF AVAILABLE SPACE POWER SYSTEM OPTIONS -- Nonnuclear Power for Orbital Use -- Photovoltaic Space Power Systems -- Solar-Dynamic Power -- Chemical Space Power Systems -- Magnetohydrodynamic Space Power Systems -- Nuclear Power for Use in Space -- Nuclear Safety, Environmental, and Regulatory Considerations -- Radioisotope Thermoelectric Generators -- Dynamic Isotope Power Sources -- SP-100 Space Nuclear Reactor System -- Smaller Nuclear Space Reactor Systems -- Multimegawatt Nuclear Space Reactor System Designs -- Other Advanced Nuclear Systems -- Finding, Conclusion, and Recommendation -- Ground-Based Power Beamed to Orbit -- Finding and Recommendation -- Co-Orbiting Power Sources -- ENVIRONMENTAL CONSTRAINTS INFLUENCING THE SELECTION OF SPACE POWER SYSTEMS -- The Natural Space Environment -- Orbital Environmental Impacts -- Conclusion and Recommendation -- 4 Needed Technological Advances in Space Power Subsystems to Meet SDI Requirements -- IMPLICATIONS OF SDI SPACE POWER ARCHITECTURE SYSTEM STUDIES FOR ADVANCES NEEDED IN POWER SUBSYSTEMS. ADVANCES NEEDED IN HIGH-TEMPERATURE STRUCTURAL MATERIALS TECHNOLOGY -- ADVANCES NEEDED IN POWER-CONDITIONING AND PULSE-GENERATING TECHNOLOGIES -- Superconducting Materials -- Component Technology -- FINDINGS, CONCLUSION, AND RECOMMENDATION -- 5 Approaches Toward Achieving Advances in Critical Power Technologies -- ADVANCING THERMAL-MANAGEMENT TECHNOLOGIES -- Heat-Rejection Considerations -- Survivability Considerations -- ADVANCING POWER-CONDITIONING COMPONENTS AND TECHNOLOGIES -- Advancing the Design of Conductors -- Normal Conductors -- Superconductors -- Superconducting Magnetic Energy Storage -- ADVANCEMENT POTENTIAL OF TECHNOLOGY FOR DYNAMIC POWER-CONVERSION CYCLES -- Advancement Potential for Alternator Technology -- Advancing the State of the Art in Power System Components -- MATERIALS ADVANCES REQUIRED FOR THE EVOLVING SPACE POWER TECHNOLOGIES -- Magnetic Materials -- Insulators -- High-Temperature Structural Materials -- CONCLUSION AND RECOMMENDATION -- 6 Commentaries on the SDI Power Program -- COMMENTARY ON SDI SPACECRAFT SYSTEM NEEDS AND THEIR IMPACTS ON THE SPACE POWER SYSTEM -- COMMENTARY ON SDI PROGRAM ISSUES -- REVIEW OF THE SDI SPACE POWER PROGRAM -- COMMENTARY ON THE SDI SPACE POWER INVESTMENT STRATEGY -- FINDING, CONCLUSION, AND RECOMMENDATIONS -- References -- Appendix A Glossary of Abbreviations -- Appendix B Biographical Sketches -- COMMITTEE MEMBERS -- ENERGY ENGINEERING BOARD LIAISON -- TECHNICAL ADVISOR -- STUDY DIRECTOR -- Appendix C Study Chronology (Meetings, Briefings, and Site Visits) -- MEETING, APRIL 21-22, 1987, WASHINGTON, D.C., NATIONAL ACADEMY OF SCIENCES -- MEETING, JUNE 25-26, 1987, NASA LEWIS RESEARCH CENTER, CLEVELAND, OHIO -- MEETING, JULY 20-21, 1987, ALBUQUERQUE, NEW MEXICO -- MEETING, AUGUST 25-26, 1987, SEATTLE, WASHINGTON -- MEETING, OCTOBER 19-20, 1987, NATIONAL ACADEMY OF SCIENCES, WASHINGTON, D.C. MEETING, NOVEMBER 17-18, 1987, NATIONAL ACADEMY OF SCIENCES WASHINGTON, D.C. -- MEETING, JANUARY 21-22, 1988, NATIONAL ACADEMY OF SCIENCES, WASHINGTON, D.C. -- Appendix D Possible Impacts of Effluents from SDI Systems -- SPACE SHUTTLE EXPERIENCE RELEVANT TO POSSIBLE IMPACTS OF EFFLUENTS PROJECTED FOR SDI SYSTEMS -- ESTIMATION OF THE IMPACT OF EFFLUENT ON

Sommario/riassunto

"Star Wars"--as the Strategic Defense Initiative (SDI) is dubbed--will require reliable sources of immense amounts of energy to power such advanced weapons as lasers and particle beams. Are such power sources available? This study says no, not yet--and points the way toward the kind of energy research and development that is needed to power SDI. Advanced Power Sources for Space Missions presents a comprehensive and objective view of SDI's unprecedented power requirements and the opportunities we have to meet them in a cost-effective manner.
