



Space Nuclear Power Systems

Lauren Gardner



Space Nuclear Power Systems:

Space Nuclear Fission Electric Power Systems David Buden, 2011 The advantages of space nuclear fission power systems can be summarized as compact size low to moderate mass long operating lifetimes the ability to operate in extremely hostile environments operation independent of the distance from the Sun or of the orientation to the Sun and high system reliability and autonomy In fact as power requirements approach the tens of kilowatts and megawatts fission nuclear energy appears to be the only realistic power option The building blocks for space nuclear fission electric power systems include the reactor as the heat source power generation equipment to convert the thermal energy to electrical power waste heat rejection radiators and shielding to protect the spacecraft payload The power generation equipment can take the form of either static electrical conversion elements that have no moving parts e g thermoelectric or thermionic or dynamic conversion components e g the Rankine Brayton or Stirling cycle The U S has only demonstrated in space or even in full systems in a simulated ground environment uranium zirconium hydride reactor power plants These power plants were designed for a limited lifetime of one year and the mass of scaled up power plants would probably be unacceptable to meet future mission needs Extensive development was performed on the liquid metal cooled SP 100 power systems and components were well on their way to being tested in a relevant environment A generic flight system design was completed for a seven year operating lifetime power plant but not built or tested The former USSR made extensive use of space reactors as a power source for radar ocean reconnaissance satellites They launched some 31 missions using reactors with thermoelectric power conversion systems and two with thermionic converters Current activities are centered on Fission Surface Power for lunar applications Activities are concentrating on demonstrating component readiness This book will discuss the components that make up a nuclear fission power system the principal requirements and safety issues various development programs status of developments and development issues **Space Nuclear Power Systems, 1985** Mohamed S. El-Genk, Mark D. Hoover, 1987 [The Role of Nuclear Power and Nuclear Propulsion in the Peaceful Exploration of Space](#) International Atomic Energy Agency, 2005 This publication provides details of a variety of radioisotope power systems shows in what circumstances they surpass other power systems and provides the history of the space missions in which they have been employed The book also summarizes the use of on board reactors and the testing done on reactor rocket thrusters as well as provides a review of current technology a consideration of future applications and a bibliography of further information on space nuclear technology This publication also attempts to identify those R D areas where space related nuclear power systems can be of practical relevance to efforts in innovative reactor and fuel cycle technology development that are currently being pursued within various international collaboration frameworks **Review of Advanced Radiator Technologies for Spacecraft Power Systems and Space Thermal Control** Albert J. Juhasz, 1994 **Proceedings of the National Symposium on Natural and Manmade Radiation in Space, Held at Las Vegas,**

Nevada, March 1-5, 1971 E. A. Warman,1972 **Energy Research Abstracts** ,1986 **Large Space Structures & Systems in the Space Station Era** ,1992 10th Anniversary Symposium on Space Nuclear Power and Propulsion Mohamed S. El-Genk,Mark D. Hoover,1993 **The Space Nuclear Reactor Program** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research and Production,1983 **Atomic Power in Space II** ,2015 Beginning with a brief overview of the programs and systems developed through the late 1970s Atomic Power in Space II traces the development and use of space nuclear power systems including the missions and programs for which they were developed to the present day from preface **A Critical Review of Space Nuclear Power and Propulsion 1984-1993** Mohamed S. El-Genk,1994 Market Researchers in nuclear power physicists chemical and nuclear engineers students and policy makers The papers in this volume summarize key technological advancements that occurred during the ten years from 1984 to 1993 in such areas as heat pipe technology fuels space nuclear safety dynamic power conversion systems and advanced radiator technologies for spacecraft power systems In light of new industry initiatives to form a consortia and the possibility of bi modal space nuclear power and propulsion systems this informative volume will be an invaluable reference source **Space Nuclear Power Applications** United States. Congress. Joint Committee on Atomic Energy,United States. Congress. Joint Committee on Atomic Energy. Subcommittee on Research, Development, and Radiation,1962 Space Nuclear Power Systems 1984 Mohamed S. El-Genk,Mark D. Hoover,1985-09-01 *Proceedings of the 11th Symposium on Space Nuclear Power and Propulsion* Mohamed S. El-Genk,Mark D. Hoover,1994 **Space Nuclear Power Generation, Conversion, and Storage for the Nineties and Beyond** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research and Production,1986 **Technology for Large Space Systems** ,1987 Space Nuclear Power Systems, 1989 Mohamed S. El-Genk,Mark D. Hoover,1992 Radioisotope Power Systems National Research Council,Division on Engineering and Physical Sciences,Aeronautics and Space Engineering Board,Space Studies Board,Radioisotope Power Systems Committee,2009-07-14 Spacecraft require electrical energy This energy must be available in the outer reaches of the solar system where sunlight is very faint It must be available through lunar nights that last for 14 days through long periods of dark and cold at the higher latitudes on Mars and in high radiation fields such as those around Jupiter Radioisotope power systems RPSs are the only available power source that can operate unconstrained in these environments for the long periods of time needed to accomplish many missions and plutonium 238 ²³⁸Pu is the only practical isotope for fueling them Plutonium 238 does not occur in nature The committee does not believe that there is any additional ²³⁸Pu or any operational ²³⁸Pu production facilities available anywhere in the world The total amount of ²³⁸Pu available for NASA is fixed and essentially all of it is already dedicated to support several pending missions the Mars Science Laboratory Discovery 12 the Outer Planets Flagship 1 OPF 1 and perhaps a small number of additional missions with a very small demand for ²³⁸Pu If the status quo persists the United States will not be able to provide RPSs for

any subsequent missions

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The National Union Catalogs, 1963- ,1964

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