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# Space Nuclear Radioisotope Systems

By David Buden

Polaris Books, United States, 2011. Paperback. Book Condition: New. 277 x 213 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.For operating in severe environments, long life and reliability, radioisotope power systems have proven to be the most successful of all space power sources. Two Voyager missions launched in 1977 to study Jupiter, Saturn, Uranus, Neptune, and their satellites, rings and magnetic fields and continuing to the heliosphere region are still functioning over thirty years later. Radioisotope power systems have been used on the Moon, exploring the planets, and exiting our solar system. There success is a tribute to the outstanding engineering, quality control and attention to details that went into the design and production of radioisotope power generation units. Space nuclear radioisotope systems take the form of using the thermal energy from the decay of radioisotopes and converting this energy to electric power. Reliability and safety are of prime importance. Mission success depends on the ability of being able to safely launch the systems and on having sufficient electrical power over the life of the mission. Graceful power degradation over the life of a mission is acceptable as long as it is within predictable limits. Electrical...



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