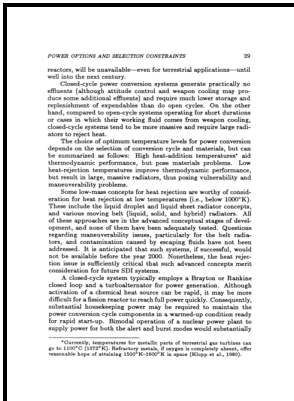


# Out-of-pile thermionic space power systems using a gaseous heat-transfer fluid

Rand Corporation - Out



Description: -

- Thermionic converters.  
Space vehicles -- Nuclear power plants. Out-of-pile thermionic space power systems using a gaseous heat-transfer fluid  
- Research memorandum (Rand Corporation) -- RM-4469-PR.  
Memorandum -- RM-4469-PR Out-of-pile thermionic space power systems using a gaseous heat-transfer fluid  
Notes: Bibliography: p. 41-42.  
This edition was published in 1965



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Impacts of some safety guidelines of space transportation system are also briefly discussed, since the currently developing space shuttle would be used as the primary launch vehicle for the nuclear electric propulsion spacecraft.

## Radioisotope Power Systems for Manned Space Stations

Long-duration surface missions necessitate reliable autonomous operation, and manned missions impose added requirements for failsafe reactor protection. This concept hybridizes thermionic TI and thermophotovoltaic TPV energy conversion in a single thermionic-photovoltaic TIPV solid-state device.

## thermionic nuclear reactor: Topics by Science.gov

A technical approach, cost estimate, manpower estimate, and schedule are presented to cover a 2 year full power reactor test. Through these two systems, the RICS both supervises and controls a nuclear reactor during normal operational states, as well as monitors the operation of the reactor and, upon sensing a system anomaly, automatically takes the appropriate actions to prevent an unsafe or potentially unsafe condition from occurring. We have previously reported on a hierarchical lattice-based approach for generating reactor core meshes.

## Optimization of a closed Brayton cycle for space power systems

A lateral transport device carries the fuel elements laterally within the vessel and through the opening in the side of the vessel, and a reversible lifting device raises and lowers the fuel elements.

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