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to the chilling cold of space and virtually invulnerable to high radiation fields. • RTGs provide longer mission lifetimes than solar power systems. – Supplied with RTGs, the Viking landers operated on Mars for four and six years, respectively. – By comparison, the 1997 Mars Pathfinder spacecraft, which used only solar and battery power,

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The book is a revised and updated edition of Satellite Thermal Control Handbook, published in 1994. The name change reflects the expanded scope of this work, which now includes thermal environments and design techniques for interplanetary spacecraft, in addition to the Earth-orbiting satellites that were the focus of the original handbook.

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Spacecraft Thermal Control Coatings References The successful thermal design of spacecraft depends in part on a knowledge of the solar absorption and hemispherical emittance of the thermal control coatings used in and on the spacecraft. Goddard Space Flight Center has had since its beginning a group whose mission has been to provide thermal/optical properties data of thermal control coatings ...

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Spacecraft Thermal Control Systems - MIT OpenCourseWare

In spacecraft design, the function of the thermal control system (TCS) is to keep all the spacecraft's component systems within acceptable temperature ranges during all mission phases. It must cope with the external environment, which can vary in a wide range as the spacecraft is exposed to deep space or to solar or planetary flux, and with ejecting to space the internal heat generated by the ...

Spacecraft thermal control - Wikipedia

Spacecraft Thermal Control Handbook, Volume II-Cryogenics Written for scientists and engineers learning spacecraft thermal control, this scholarly work will help in the design, analysis, integration, testing, and operation of many instruments, sensors, and devices that must be cooled to cryogenic

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