

II.5. SPACE POWER ENGINEERING AND PROPULSION

SOLAR POWER ENGINEERING (Subproject of the «Environment» Project)

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Introduction. This integrated project in the field of space solar power engineering pursues the following objectives:

— further development of the theory of processes of solar energy conversion into electric energy and

its transmission to remote users in the space environment;

— creation of adequate mathematical models and study of the dynamics of advanced technological structures in solar power engineering as specific mechanical systems.

«Cable-Tether System» Experiment STUDY OF THE BASIC VARIABLES OF A CABLE-TETHER SYSTEM INTENDED AS AN ELECTROMECHANICAL LINKAGE BETWEEN SPACE VEHICLES

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One of the trends in space power engineering is isolation of power modules of a space vehicle as a self-contained power space vehicle. Power trans-

mission from such a «power space vehicle to the space vehicles-«users» could be carried out by cables or with wireless technology. The latter method repre-