
Thermal analysis of a large deployable space antenna truss reflector

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A method for allowing for mutual screening of individual elements of the truss reflector when analyzing temperatures is under consideration in this paper. Using this method it is possible to take into account a nonuniformity of heat fluxes falling on separate rods of the antenna reflector. It allows to calculate temperature distribution along each rod for different positions of a communication satellite with enough precision.

Keywords: *large space structures, truss structures, space antenna, thermal effects, temperature field.*

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