

**DECREASING THE AREA OF FALLOF «SOYUZ» - TYPE CARRIER
ROCKET'S USED BLOCKS WITH THEIR STRUCTURE DELIBERATELY
DIVIDED INTO PARTS**

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Samara State Aerospace University

Deliberate division of used blocks' structure in the process of their free falling is proposed in order to decrease the area of fall of the carrier rocket's used blocks. Ballistic calculation of the process of placing payloads in the target orbit and the calculation of the used block's fall with regard to the structure being divided into parts are presented. Dependence of the payload mass on the area of fall of the carrier rocket's used blocks is established. The effect of deliberate division of the used blocks' structure into parts is estimated in general.