

Determination of nanosatellite attitude in the regime of noncontrolled motion

Tkachenko A.I.

Abstract: The problem of determining attitude of a small spacecraft under conditions, when limitations of energy resources, mass and size of the object force one to refuse controlling its motion with respect to the mass-center. The suggested solution is based on readings of the on-board magnetometer and the familiar from literature means of imitation of solar sensor by comparison of values of electric potential checked on the elements of solar batteries panels. © 2005 by Begell House, Inc.

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Authors with affiliations:

1. Tkachenko, A.I.