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Stationary solutions of the restricted three-body problem in the satellite variant. (English. Russian original) [Zbl 0583.70018](#)

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The generalized satellite variant of the restricted three-body problem when the planet has the shape of a triaxial ellipsoid is analyzed. The existence of stationary solutions, corresponding to Poincaré periodic solutions of the third kind, is shown. Stationary solutions are calculated for parameters close to the parameters of the earth-moon- earth-satellite system.

MSC:

[70M20](#) Orbital mechanics

[70F15](#) Celestial mechanics

[70F07](#) Three-body problems

Keywords:

generalized satellite variant; restricted three-body problem; existence; stationary solutions; Poincaré periodic solutions; earth-moon-earth- satellite system