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MOTION AND STABILITY OF INTERCONNECTED SATELLITES SYSTEM IN CIRCULAR ORBIT OF THE CENTRE OF MASS

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Abstract

Effects of the Solar Radiation Pressure, Magnetic force, and Earth shadow on the motion and stability of two satellites connected by Light flexible and inextensible string in the central gravitational field of the earth. The equations of motion of the system have been deduced with respect to the centre of mass of the system, which is assumed to move along Keplerian elliptic orbit (in particular circular).

Key Words: Satellites, Circular, BKM.

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