PERTURBATIONS OF CRITICAL MASS IN THE RESTRICTED THREE-BODY PROBLEM

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ABSTRACT

Based upon the authors' result (Astron. Astrophys. <u>43</u>, 381-3, 1975) that oblateness of the more massive primary decreases the value of the critical mass, this note is concerned primarily with a few observations on Szebehely's result (Astron. J. <u>72</u>, 7-9, 1967) that the Coriolis force is a stabilizing force. It has been deduced that a small change ε in the Coriolis force from unity results in a perturbation of the critical mass by a factor of $-8\varepsilon/81\sqrt{69}$.