On the Generalizations of the Polar Moments of Inertia under the Homothetic Motions.

In this study, during the 1-parameter closed homothetic motion, we give the Holditch-Type Theorems for the polar moments of inertia of the closed orbit curves. In the case of the homothetic scale: 1, the results given by Yüce, S., (2005) are obtained as a special case. (Received September 21, 2010)