1067-51-1616　　　　**Mutlu Akar*** (`makar@yildiz.edu.tr`), Yildiz Technical University, Faculty of Arts, Sciences, Mathematics Department, Davutpasa Campus, Esenler, 34210 Istanbul, Turkey, and **Salim Yuce** (`sayuce@yildiz.edu.tr`), Yildiz Technical University, Faculty of Arts, Sciences, Mathematics Department, Davutpasa Campus, Esenler, Istanbul, 34210. *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)