1018-39-9 **John M. S. Rassias*** (jrassias@tellas.gr), 4, Agamemnonos Str, 15342 Aghia Paraskevi, Attikis, Greece, and **Matina(Stamatiki) J. Rassias** (matina@stams.strath.ac.uk), 26,Richmond Str, G1 1xH Glasgow, Living,26, Scotland. *On the Ulam stability of mixed type functional equations.*

In 1940,1960 and 1964 S. M. Ulam [18] proposed the Ulam stability problem:"When is it true that by slightly changing the hypotheses of a theorem one can still assert that the thesis of the theorem remains true or approximately true ?" In 1941 D.H. Hyers solved the well-known Ulam stability problem for linear mappings. In 1951 D.G.Bourgin was the second author to treat the Ulam problem for additive mappings. In 1982-2004 J.M. Rassias established the Hyers-Ulam stability for the Ulam problem of linear and nonlinear mappings. In 1983 F. Skof was the first author to solve the Ulam problem for additive mappings on a restricted domain. In 2005 V.A. Faiziev and P.K. Sahoo established on groups the stability of a Jensen type functional equation introduced by J.M. Rassias and M.J. Rassias in 2003. In this paper we investigate the Ulam stability of mixed type functional mappings on restricted domains. Finally, we apply our results to the asymptotic behavior of these equations. (Received June 14, 2005)