

Modelling and Measurement of Dynamic Parameters of the Nylon Actuators

Justín Murín^{1, a)}, Vladimír Goga^{1, b)}, Juraj Hrabovský^{1, c)}, Ladislav Šarkan^{1, d)}, Tatiana Malinarovičová^{1, e)}, Juraj Paulech^{1, f)}

¹*Institute of Automotive Mechatronics, FEI STU in Bratislava, Ilkovičova 3, 812 19 Bratislava*

^{a)}Corresponding authors: justin.murin@stuba.sk, ^{b)}vladimir.goga@stuba.sk,
^{c)}juraj.hrabovsky@stuba.sk, ^{d)}xsarkan@is.stuba.sk, ^{e)}xmalinarivicova@is.stuba.sk,
^{f)}juraj.paulech@stuba.sk

Abstract. The results of measurement of the eigenfrequencies of the nylon actuators are presented considered free and damped eigen vibration. An analytical and numerical elastostatic and modal analyses of the nylon actuators are done and their results are compared with the measured ones. In numerical analysis, the finite element method is used.