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R. Rimasauskienė, M. Mieloszyk, T. Wandowski, P. Malinowski, W. Ostachowicz

Investigation of the Thermal Performance of Piezoelectric Actuators

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In this era of new technologies, precision positioning equipment are requested to meet various characteristics, such as small size, versatility, reliability, efficiency, wide operating temperature and speed range, capability of working in vacuum and radiation environment. As it is known, piezoelectric actuators meet most of the requirements. Piezoelectric actuators are small in size, relatively low in cost, and suitable for use in precision positioning systems. However various structures of devices with piezoelectric actuators are used in requires knowing their thermal characteristics.

The experimental research described below disclosed dynamical characteristics of two different piezoelectrical actuators. Measurements were carried out with a help of Laser Scanning Vibrometer and Fibre Bragg Grating (FBG).

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Ключевые слова:

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