

*identification of the mechanical resonance frequencies,
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Dominik ŁUCZAK*

IDENTIFICATION OF THE PARAMETERS OF MULTI-MASS DIRECT DRIVE SYSTEM

This paper presents methods for the identification of mechanical resonance of multi-mass direct drive system. Methods have been applied in the field of digital signal processing. Was used spectral analysis to identify the mechanical resonance frequencies of direct drive with elastic connection. Discussed methods of identification have been verified by simulation and real system. Two different input signal was presented: sine and chirp wave. Both input signals gave good result for determine mechanical resonance frequencies, however sine wave with variable frequency determined only for the number of frequency corresponding to the input signal frequency gave better result for determine mechanical antyresonance frequencies.

* Institute of Control and Information Engineering, Poznań University of Technology, Piotrowo 3A, 60-965 Poznań, Poland, Dominik.Luczak@put.poznan.pl