
DETERMINING THE ROUGHNESS AMPLITUDE FORMED BY BALL BURNISHING

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Abstract

We consider a way of computationally determining the roughness amplitude formed by ball burnishing in a numerical experiment. We do not have to measure the roughness of the part directly during the numerical experiment; we performed the computations using a theoretical equation, then encoded the input data and prepared a matrix. We present an empirical equation based on the results obtained, which shows the relation between the parameters under study

Keywords

Burnishing, numerical experiment, resulting surface roughness, regression coefficient

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