

RESEARCHING ERROR OF BLADE LOCATING IN MECHANISM THE POMKL – BLIK FIXTURE BY THE SYSTEM OF APPROXIMATE ANALYSIS OF DOUBLE-DIMENSIONAL DENSITIES OF PROBABILITY

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The article is devoted to basing error research in blade fixturing mechanism setup of POMKL-BLIK device. The research is divided on two extended phases. The first experimental phase is carrying out to determine dispersion field by measuring etalon spatial locations with coordinate measuring machine. The processing of data obtained while experiment was executed on the second phase. The problem is in double-dimensional data spreading. Therefore the method of double-dimensional probability densities approximation was given in the article. The result of the experiment would be analytical expression of double-dimensional statistical law that describes random field of experimental points and probability fiducial intervals in double-dimensional space.

Fixture, POMKL-BLIK, basing, coordinate measuring machine, one-dimensional basis, polynomial, expectation value, function of double-dimensional probability density

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