

Ensuring the Reliability of the Tolerance Measurement Control Results

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key words

reliability of control, control errors of type 1 and 2, risks of customer and manufacturer, Monte Carlo method

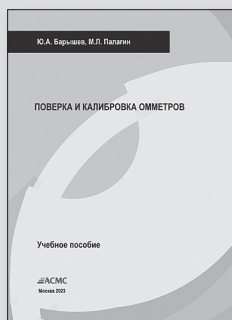
Product quality control procedures must ensure high reliability of control results, that is, fairly low risks of making erroneous decisions. These risks depend on several factors: the accuracy of measurements during control, the correct choice and number of controlled parameters, as well as the quality of the controlled products. The authors examined various types of tolerance measurement control of products and ways to ensure their reliability. When solving various problems of planning tolerance measurement control, it is advisable to use the considered control reliability criteria, or various risks of making erroneous decisions. The approach described in GOST R 8.731–2010 does not allow us to differentiate these risks for the various tolerance control options discussed in the article. Therefore, it is proposed to assess the risks of making erroneous decisions using the Monte Carlo (simulation) method.

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НОВАЯ КНИГА

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