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ESTIMATION OF A NUMBER OF ERRORS IN CASE OF REPETITIVE QUALITY CONTROL

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Abstract: The estimation of a number of defects of a specified part of a homogeneous product is considered. A natural estimator, although well justified by a heuristical reasoning, is proved to be asymptotically biased. This leads to the proposal of a modified asymptotically unbiased estimator. The asymptotic variances of both estimator are derived and compared with the results of a Monte-Carlo study.

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