

Selected properties of estimators in the model of weighing design

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Abstract

Several aspects of the determination of optimal weighing designs are investigated. A methodological approach is proposed for identifying the best design under the D-optimality criterion. The analysis is conducted under the assumption that the measurements exhibit equal positive correlations and have identical variances. Related aspects of this problem have also been addressed in previous studies: [1], [2].

Keywords

D-optimality, weighing design.

References

- [1] Ceranka B., Graczyk M. (2018). Highly D-efficient weighing designs for an even number of objects. *Revstat Statistical Journal* 16(4), 475–486.
- [2] Graczyk M., Ceranka B. (2025). A study of the efficiency of chemical balance weighing designs. *Biometrical Letters* 62(1), 91–100.