

ESTIMATION OF THE REPRESENTATIVE SAMPLE MASS IN NEUTRON ACTIVATION ANALYSIS

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Equations are derived that connect the mass of a representative sample and such components of the total variance, which characterises the dispersion of the results of neutron activation analysis (NAA), as the variances of nonuniformity and replicate reproducibility. A method is proposed for approximately estimating the minimum mass of representative sample in the NAA of nonhomogeneous materials.