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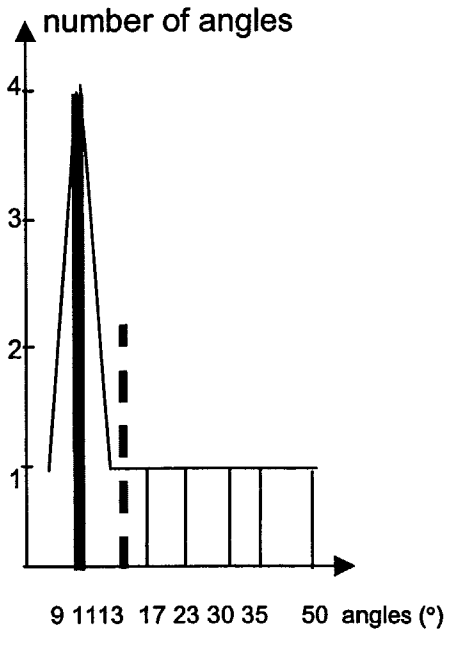
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(54) Title: STATISTICAL DATA ANALYSIS TOOL



(57) Abstract: A functional model for a set of experimental data has K independent parameters. The parameters are to be estimated from an experimental data-set of N data points, comprising "inlier" data points representative of the model and "outlier" data points which are not representative of the model. Multiple subsets of the data points are defined, and each used to estimate the parameters of the model. The various estimates of the parameters are plotted in the parameter space to identify the peak parameters in the parameter space. Data points which are not described by the model using the said peak parameters are judged to be outliers. The method makes it possible to identify up to N-K'-3 outliers (K' is the minimum number of data points through any subset of the input data set the K parameters of the model can be uniquely calculated).

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