

## **FIELD PARAMETRIC GEOSTATISTICS**

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Many techniques were introduced along the time for gold grades and ore reserve estimation but none was satisfactory. Even Indicator Geostatistics needs the same number of variograms as chosen cutoffs, and may lead to order relation problems. Here we present a new method, the Field Parametric Geostatistics (FPG), that needs only one variogram, generally well behaved, brings no order relation problems, and transforms gold ore reserve estimation in an easy task, so replacing fully the indicator approach for highly-skewed variables estimation. The method is based in the fact that both spatial distribution and distribution function must be taken into account for estimation purposes. Classical Geostatistics uses only spatial distribution, while parametric Classical Statistics deals only with distribution function. FPG applies also to any other variable having highly skewed values. When used for non-skewed variables, the results are similar to Classical Geostatistics, with a smaller spread of error. It can be proved, theoretically, that Classical Geostatistics is just a particular case of FPG. The method was tested successfully for several deposits of different types so it can replace former Geostatistics in all cases.