



How to produce discreet Gaussian sequences: Algorithm and code

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Algorithm and code to produce sequences whose members obey Gaussian distribution function is reported. Discreet and limited number of groups are defined in the distribution function, where each group is represented only with one value instead of a range of value. The produced sequences are also checked back whether they still fit the discreet distribution function. Increasing of number of particles N increases the value of correlation coefficient R^2 , but increasing number of groups M reduces it. Value $R^2 = 1$ can be found for $N = 1000000$ at least with $M = 5000$ and for $M = 10$ at least with $N = 1000$.

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