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If a noise source has a normal distribution, the RMS amplitude of the source is the same as the standard deviation of the distribution. In the plot of the first 500 samples, the RMS amplitude is the standard deviation of 10. A plot of all 10,000 samples (see below) will also have an RMS amplitude of 10.

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framework for the modeling and analysis of noise in MRI, considering different modalities and acquisition techniques; describes noise and signal estimation for MRI from a statistical signal processing perspective; surveys the different methods to remove noise in MRI acquisitions from a practical point of view; reviews different techniques for

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estimating noise from MRI data in single-
and multiple-coil systems for fully
sampled acquisitions; examines the
issue of ...

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Recognizing and quantifying the amount
of statistical noise in a data set is an

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important step in analysis; a step which will allow us to see immediately whether or not data shifts are significant or simply part of the static. Statistical noise is often referenced by margins of error.

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A statistical analysis of data that have been multiplied by randomly drawn noise variables in order to protect the confidentiality of individual values has recently drawn some attention. If the distribution generating the noise

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variables has low to moderate variance, then noise-multiplied data have been shown to yield accurate inferences in several typical parametric models under a formal likelihood-based analysis.

Statistical Analysis of Noise Multiplied Data

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Noise Multiplied Data Using Multiple
Imputation [PDF - <1.0 MB] A statistical
analysis of data that have been
multiplied by randomly drawn noise
variables in order to protect the
confidentiality of individual values has
recently drawn some attention.

Statistical Analysis of Noise

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Statistical noise is unexplained variability within a data sample. The term noise, in this context, came from signal processing where it was used to refer to unwanted electrical or electromagnetic energy that degrades the quality of signals and data. The presence of noise means that the results

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of sampling might not be duplicated if the process were repeated.

What is statistical noise? -

Definition from WhatIs.com

Statistical Noise Levels, L_n , L_{10} , L_{90} %, etc. Because noise levels often fluctuate over a wide range and over time, a single value descriptor like the L_{eq} -

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Equivalent Level is essential. Another useful set of parameters are the L_n values (Statistical Noise Levels) which we describe here.

Statistical Noise Levels, L_n , L_{10} , $L_{90\%}$, etc. : Sound and ...

Abstract A statistical analysis of data that have been multiplied by randomly

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drawn noise variables in order to protect the confidentiality of individual values has recently drawn some attention.

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Rakuten Kobo. This unique text presents a comprehensive review of methods for modeling signal and noise in magnetic resonance imaging ...

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Noisy data is data that is corrupted, or distorted, or has a low Signal-to-Noise

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Ratio. Improper procedures (or improperly-documented procedures) to subtract out the noise in data can lead to a false sense of accuracy or false conclusions. $\text{Data} = \text{true signal} + \text{noise}$

Noisy data - Wikipedia

Statistical Analysis of Random Signals.
The characterization of random signals

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is of paramount interest in the statistical analysis of any communication system. Random signals can include electrical noise, audio signals, television signals, and even computer data. These random signals are functions of time (discrete or continuous) and are random in the sense that before conducting an experiment it is not possible to precisely predict the

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waveform (or function of time) that will
be observed.

Statistical Analysis of Random Signals

The objective of this work is the
statistical analysis, characterization and
mod- eling of atmospheric radio noise in
the frequency range 10 Hz - 60 kHz, with

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the specific goal of improving
communication systems operating in

this range.

Statistical Analysis and Modeling of Low-Frequency Radio ...

Statistical noise levels L_N are commonly
used for environmental noise
monitoring, such as road traffic or

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community noise assessments. In these applications, noise levels fluctuate significantly over time, and level statistics help to better understand what's going on. For example, L90 describes the level which was exceeded for 90% of the time.

How are Percentile Statistics

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AVT Statistical filtering algorithm is an approach to improving quality of raw data collected from various sources. It is most effective in cases when there is inband noise present. In those cases AVT is better at filtering data than, band-pass filter or any digital filtering based on variation of.

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