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support the improvement of these levels both at the design stage and during the system operating stage. It presents current best practice in the field, as well as:

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Simulation in system
reliability analysis is
based on the Monte
Carlo simulation
method that generates
random failure times
from each component's
failure distribution. The

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overall system
reliability is then
obtained by simulating
system operation and
empirically calculating
the reliability values for
a series of time values.

Simulation to Determine the Reliability of Complex Systems ...

The method is called
AK-MCS for Active
learning reliability
method combining
Kriging and Monte

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Carlo Simulation. It is shown to be very efficient as the probability of failure obtained with AK-MCS is very accurate and this, for only a small number of calls to the performance function.

AK-MCS: An active learning reliability method combining

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The generation capacity states and the risk model were

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obtained using the sequential Monte Carlo simulation (MCS) method. The load was gradually increased stepwise and is simulated against the constant generation capacity. In each case, the reliability index was recorded in terms of loss-of-load evaluation (LOLE).

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The Monte Carlo Simulation Method for System Reliability and Risk Analysis comprehensively illustrates the Monte Carlo simulation method and its application to reliability and system engineering. Readers are given a sound understanding of the fundamentals of Monte Carlo sampling and simulation and its application for realistic

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The product moment method of correlation is a significant method for estimating reliability of two sets of scores. Thus, a high correlation between two sets of scores indicates that the test

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Design Reliability Tests
Good reliability specifications include requirements for reliability and an associated lower one-sided confidence interval. When designing a test, we must determine the sample size to test as well as the expected test duration. The next simple example illustrates the methods available in SimuMatic.

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estimate the network...

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Reliability**

Estimation under the Marshall ...

reliability associated
with any variable

implies determining all
possible ways of

estimate it, a task that
becomes impracticable
as the number of

variables grows. This
work proposes to use a
Monte Carlo Simulation
method, MS, to

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evaluate the reliability of the network defined as the probability of continuing to observe the keys

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phylogenetic
circumstances we can
expect these methods
to succeed or fail. ...
(2003), are thought to
jeopardize the
reliability of genetic
methods of
identification. This is
because of the
possibility that ...

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