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In particular, it provides: i) a basic illustration of some methods used in reliability and risk analysis for modelling the stochastic failure and repair behaviour of systems, e.g. the Markov and Monte Carlo simulation methods; ii) an introduction to Genetic Algorithms, tailored to their application for RAMS (Reliability, Availability, Maintainability and Safety) optimization; iii) an introduction to key issues of system reliability and risk analysis, like dependent failures and importance ...

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Monte Carlo simulation is the preferred method for reliability assessment of large and complex systems due to the realism it introduces, therefore, it is adopted as the benchmark when comparing accuracies among different computational methods. Both assessment methods have merit and demerit and can be very powerful when properly applied. 3.1.

### Computational techniques for assessing the reliability and ...

Together with the principle of maximum entropy, a novel computational approach was proposed to assess the complete probability distribution of a system output. Accuracy and efficiency of the proposed method for structural reliability analysis were verified by crude Monte Carlo simulation of several examples.

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M-DRM, the involved computational cost can be remarkably reduced compared to the classical methods in literature (simulation method or tensor Gauss quadrature method). Accuracy and ef?ciency of the proposed method for polynomial chaos expansion were veri?ed by considering several practical examples. iv

### Efficient computational methods for structural reliability ...

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