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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.

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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

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