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With the proposed 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 efficiency of the proposed method for polynomial chaos expansion were verified by considering several practical examples.

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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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COMPUTATIONAL METHODS FOR RELIABILITY AND RISK ANALYSIS Series on Quality, Reliability and Engineering Statistics — Vol. 14 Chelsea - Comp Methods for.pmd 1 1/9/2009, 10:39 AM. To Sleeping Beauty, Snowhite and Saetta Mc Queen To my wife Giorgia, author of my life book

Computational Methods For Reliability And
Computational methods for efficient structural reliability and reliability sensitivity analysis Y.-T. Wu Southwest Research Institute, San Antonio, Texas 78238

Computational methods for model reliability assessment ...
This paper investigates various statistical approaches for the validation of computational models when both model prediction and experimental observation have uncertainties, and proposes two new methods for this purpose. The first method utilizes hypothesis testing to accept or reject a model at a desired significance level.

Computational methods for model reliability assessment ...
Complementary Interaction Method (CIM) for System Reliability Analysis. ... Computational methods for efficient structural reliability and reliability sensitivity analysis. Y.-T. Wu ; AIAA Journal Vol. 32, No. 8 August 1994. AN EFFICIENT PROBABILISTIC SCHEME FOR CONSTRUCTING STRUCTURAL RELIABILITY CONFIDENCE BOUNDS.

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