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Distribution modeling for reliability analysis: Impact of multiple dependences and probability model selection

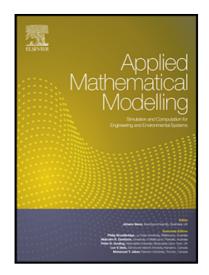
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Distribution modeling for reliability analysis: Impact of multiple dependences and probability model selection

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Highlights

Vine structured copula model is used to represent multivariate distributions

Copula parameters are determined from correlations by moment matching technique

The need for accurate dependence characterization is demonstrated in multi-dimensions

A method of selecting the optimal dependence and distribution model is provided

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