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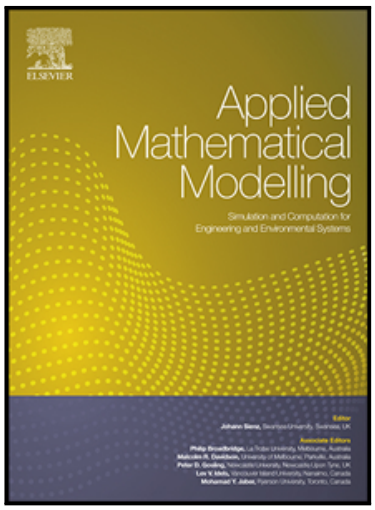

Random Variables with Moment-Matching Staircase Density Functions

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Highlights

- This paper proposes the means to model phenomena exhibiting a possibly skewed and multimodal response
- The approach is based on calculating variables having a finite range and fixed values for the first four moments
- This paper provides the means to estimate the above variables and to quantify the corresponding sampling error
- The versatility of the method is illustrated by modeling the dynamics of an aeroelastic structure subject to flutter

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