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Functional Weibull-based models of steel fracture toughness for structural risk analysis: estimation and selection

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## HIGHLIGHTS

- A complete methodology for assessing models for steel fracture toughness that extend the Master Curve.
- Solves incoherencies in estimation of former approach.
- Uses information yielded by both standard and non-standard data.
- Specific approaches of model selection.
- Provides a refinement for the modelling of a major influent random variable in structural reliability analysis.

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