

Fatigue assessment of polymer materials for automotive applications

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Research Scope:

- A detailed literature review and state-of-the-art for fatigue models for thermoplastics, fatigue and fracture mechanisms.
- Material characterization and micro structural analysis for calibration of local fatigue model parameters.
- Investigating the applicability of probabilistic fatigue design models for thermoplastics and fiber reinforced structures.
- Application of developed and validate fatigue design concepts (deterministic and probabilistic) to vehicle components.



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