

Peer Review

Review of: "Parameter Calibration for Johnson Cook and Preston-Tonks-Wallace Material Strength Models with Uncertainty Quantification"

Utkarsh Bhardwaj¹

1. University of Lisbon, Lisbon, Portugal

- **No Introduction:** The paper lacks a dedicated introduction section.
- **No State of the Art / Literature Review:** There is no discussion of previous work or how this research builds upon it.
- Explains the **motivation**
- Describes the **problem being addressed**
- Highlights the **gap in the literature**
- The paper does not clearly state **why** the study is important.
- There is no explanation of **how this work is new or original** compared to past studies.
- It is unclear which **material strengths** (e.g., yield strength, tensile strength, etc.) are being referenced or used.
- **No values or standards** (e.g., Eurocode, API, IS code) are mentioned.
- Add a table or subsection under "Methodology"
- The paper does not clearly define:
 - What are the **sources of uncertainty** (material, load, geometry, etc.)
 - How these were **quantified** (probabilistic distribution, intervals?)
- Types of uncertainties considered
- How they were characterized (e.g., Normal distribution with mean and std. dev.)
- The **method used to propagate uncertainty** is not mentioned.

Declarations

Potential competing interests: No potential competing interests to declare.