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Peer Review

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

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The paper deals with an always important problem of the identification of the parameters for a constitutive law. In this case, these are the Johnson-Cook model and the Preston-Tonks-Wallace models.

However, it is rather not a journal paper, but some notes taken during the research. Unfortunately, there is no introduction, no literature review, and no motivation.

Anyway, the problem is interesting. The Hopkinson bar results are shown clearly. The reader can find information about the application of the two models in the research.

Moreover, the results clearly show the better applicability of the PTW model (Figure 10). A qualitative difference between the JC and PTW models is observed.

It would be good to address more widely the low-temperature test (77K). It seems that the results would show brittle fracture. It is worthy to find the limit between the qualitative behaviours of the material. Namely, gradually increasing the temperature at which the test is performed.

The report is interesting. It could be published after some extensions mentioned above.

Declarations

Potential competing interests: No potential competing interests to declare.

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