

REVIEWER'S REPORT

Manuscript No.: IJAR-54717

Title: IMPACT OF THE NUMBER OF MRÄ"Z SURFACES ON THE REPRESENTATION OF THE BAUSCHINGER EFFECT

Recommendation:

Accept as it is
 Accept after minor revision...✓
 Accept after major revision
 Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance			✓	

Reviewer Name: NIKHIL GUPTA

Date: 11/11/25

Remarks

Strengths

*Clear methodological approach combining numerical and analytical evaluation.
 Well-defined Bauschinger parameters and comparison between two steels.
 Demonstrates practical insight into model–accuracy trade-offs.*

Areas for Improvement:

*Figures and tables could be better labeled and referenced in the text.
 Include more quantitative discussion of “convergence threshold”
 Improve English grammar and formatting for readability.
 Clarify the modified algorithm steps for reproducibility.*

Overall Evaluation

Type: Numerical / Theoretical Mechanics Study
Quality: Good (needs minor language and structural polishing)
Contribution: Provides practical insight into optimizing the number of yield surfaces for realistic modeling of cyclic plasticity and the Bauschinger effect.