# **Accepted Manuscript**

Coupled stress and energy criterion for multiple matrix cracking in cross-ply composite laminates

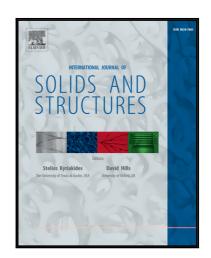
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### ACCEPTED MANUSCRIPT

## Highlights

- A new criterion for initiation and development of matrix cracking is proposed
- Two formulations of the criterion discrete and continuous are developed
- Relationships between the two formulations are established
- Effects of laminate lay-up and material properties on the failure load are examined
- Comparison against experimental results shows a good agreement



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