## **Accepted Manuscript**

On the Application of a Lattice Method to Configurational and Fracture Mechanics

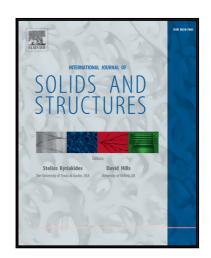
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#### ACCEPTED MANUSCRIPT

### Highlights

- Lattice method capabilities in obtaining LEFM fracture mechanics quantities
- Correlating the lattice with the concepts of material force and crack band width
- Obtaining crack tip driving & material forces by two independent distinct methods
- Satisfying local balance law in homogeneous bodies with no need for mesh update
- Characterizing crack tip material force explicitly by three material parameters

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