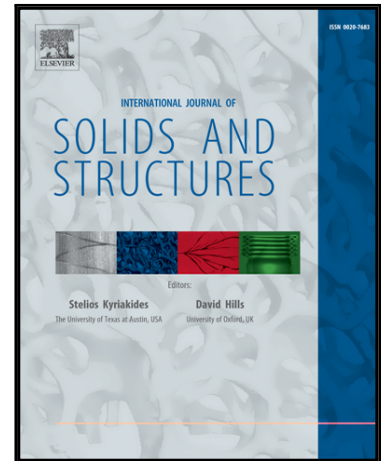


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Elastic impact response of a nonlocal rectangular plate

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Highlights

- The impact of a nonlocal plate with an indenter was theoretically studied.
- A conceptual contact law was utilized based on van-der Waals forces.
- Nonlocal parameter has significant effects on transient behavior of the plate.
- Despite macro elastic models, new model suggests that particle might stick to plate.
- Regardless of its distance to particle, plate remains under the effect of particle.

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