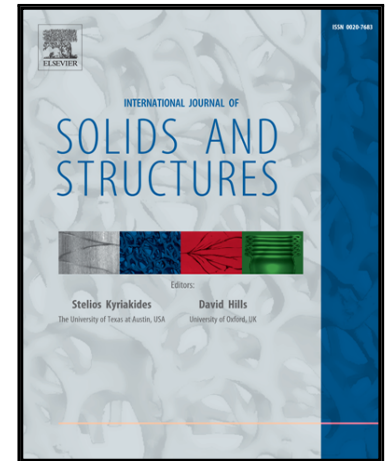


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A micro-mechanical parametric study on the strength degradation of concrete due to temperature exposure using the discrete element method

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Highlights

- A 2-phase discrete element model is utilized for concrete.
- Effect of bond degradation and thermal incompatibility of the components are considered.
- Parametric study on the coefficient of thermal expansion is carried out.
- Variation of strength and stiffness degradation is compared to experiments.

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