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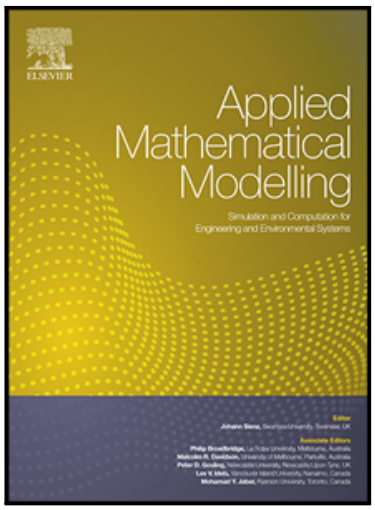

Transient response of dissimilar piezoelectric layers with multiple interacting interface cracks

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Highlights

- Transient stress analysis is carried out in dissimilar piezoelectric layers with multiple interface cracks
- Dislocation densities are employed to determine field intensity factors and energy release rate for multiple interfacial cracks.
- Formulation is applicable for finding stress fields near the crack tips under impact electro-mechanical loading.
- The analysis can be applied for any number of cracks.

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