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Two-dimensional Green's function of orthotropic three-phase material under a normal line force with application in the design of composite

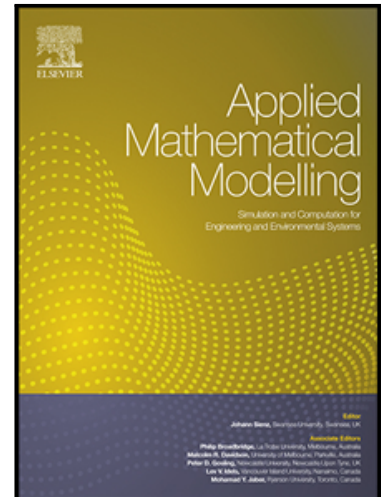
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Highlights

- The whole stress field of a three-phase orthotropic material under a normal line force is obtained.
- The solution is expressed explicitly in terms of elementary function, therefore, it is convenient to be used.
- Its application is not limited with the thickness of adhesive layer.
- The influence from properties of adhesive layer to stress transfer at interface is studied.
- Based on this Green's function, the stress field of adhesive structure under arbitrary normal loadings can be obtained.

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