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Non-classical laws with conserved quantities from the arbitrary functions included in general solution to elasticity and application

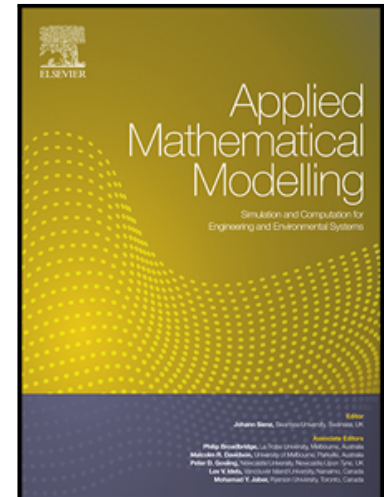
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Highlights

- Noether symmetries are discussed by standard techniques not for the Lagrangian density of an elastic body.
- The deep-level symmetries of an elastic field from arbitrary functions included in general solution.
- Conserved quantities with arbitrary integer order spatial derivative or integral.
- An invariant finite physical parameter can be obtained for arbitrary integer order singularity field.

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