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Analysis and Homogenization of Functionally Graded Viscoelastic Porous Structures with a Higher Order Plate Theory and Statistical Based Model of Cellular Distribution

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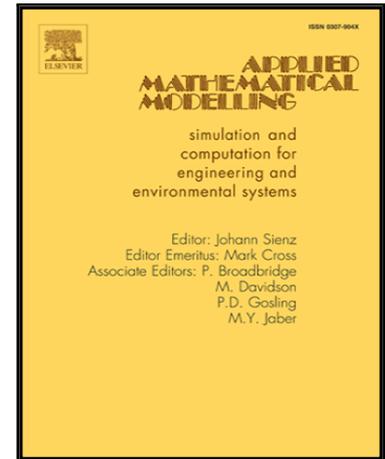
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Highlights

- Fabrication, characterization, and modelling of functionally graded porous structures.
- The focus of this work is on non-conventional functionally graded materials.
- A new higher order plate theory that accounts for thickness extensibility.
- The plate theory satisfies the consistency of transverse shear strain energy.
- A new homogenization model that accounts for cellular distribution.

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