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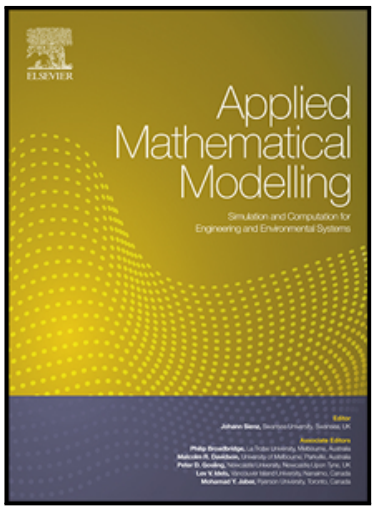


# Two-Layered analytical model of arterial wall with residual stress under physiological loading

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**Highlights**

- Analytical dual-layer model of artery with two types of residual stresses was proposed.
- It allows to perform wide range of calculations in an efficient way.
- Impact of residual stresses is always significant and should be taken into account in modeling.
- Results were confronted with a numerical model with the nonlinear strain-stress response.

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