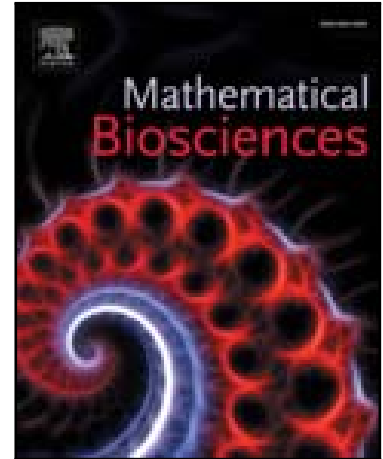


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Buckling analysis of orthotropic protein microtubules under axial and radial compression based on couple stress theory

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**Highlights**

- We propose a new size dependent shell model for analysis of anisotropic protein microtubule buckling.
- The effects of some geometrical and physical parameters are investigated.
- Critical buckling loads are intensely sensitive to geometric and physical parameters.

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