## Accepted Manuscript

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Author: M.H.B.M. Shariff R. Bustamante J. Merodio

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## ACCEPTED MANUSCRIPT

### Highlights:

- Spectral invariants are proposed for transversely nonlinear viscoelastic bodies.
- Syzygies are presented indicating that some of the classical invariants from Rivlin and Spencer are not independent.
- Expressions for the stresses are presented.

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