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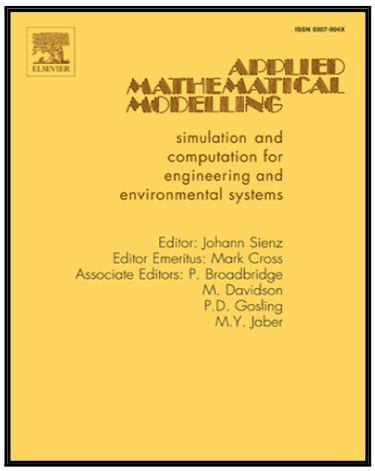

Improved likelihood-based inference in Birnbaum–Saunders nonlinear regression models

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Highlights

- We derive a Bartlett correction factor for the score test in the BS nonlinear regression model.
- We numerically compare the proposed test with the usual likelihood-based tests.
- The simulations reveal the proposed test leads to very accurate inference in small samples.

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