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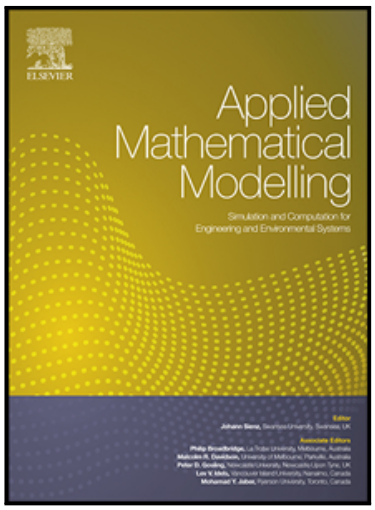

Mode Shape Analysis, Modal Linearization, and Control of an Elastic Two-Link Manipulator Based on the Normal Modes

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Highlights

- Global vibration modes of two-link flexible manipulators are calculated.
- Effects of uncertainties and design parameter are studied in modal space.
- A modal linearization method is proposed for flexible manipulators.
- A control scheme based on the linear model is simulated.

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Abstract

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