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Dynamical modeling and attitude analysis for the spacecraft with lateral solar arrays

Yuteng Cao, Dengqing Cao, Lun Liu, Wenhu Huang

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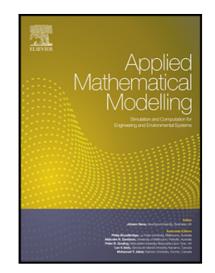
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Highlights

- The dynamical model of the spacecraft with two groups of lateral solar arrays is established.
- Global modes of the model are obtained and used to discrete the PDEs of the system.
- Comparisons of the natural characteristics are performed with finite element model.
- Dynamic responses of attitude motion and flexible vibration are performed by simulation examples.

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