## Accepted Manuscript

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

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 PII:
 S0307-904X(18)30376-7

 DOI:
 https://doi.org/10.1016/j.apm.2018.07.058

 Reference:
 APM 12411

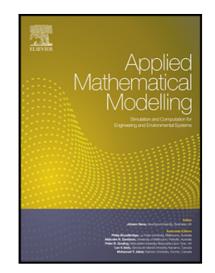
To appear in:

Applied Mathematical Modelling

Received date:1 February 2018Revised date:12 June 2018Accepted date:25 July 2018

Please cite this article as: Yuteng Cao, Dengqing Cao, Lun Liu, Wenhu Huang, Dynamical modeling and attitude analysis for the spacecraft with lateral solar arrays, *Applied Mathematical Modelling* (2018), doi: https://doi.org/10.1016/j.apm.2018.07.058

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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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