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Dynamic analysis of a planetary gear system with multiple nonlinear parameters

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Highlights:

- 1. A nonlinear dynamic model of a planetary gear system is established, considering time-varying meshing stiffness, comprehensive gear error and gear backlash.
- 2. The numerical simulation focuses on the effects of excitation frequency and comprehensive gear error.
- 3. The different parameters have different influences on the motion of the planetary gear system.
- 4. The results indicate the suitable coefficients should be specified so that chaotic behavior can be avoided.

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