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Locating damaged storeys in a structure based on its identified modal parameters in Cauchy wavelet domain

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Highlights

- A flexibility-based procedure for accurately locating damaged storeys of a structure is developed.
- The modal parameters that identified in continuous Cauchy wavelet domain are employed.
- The accuracy and effectiveness of the proposed approach are confirmed by numerical simulations.
- Acceleration responses of three-story and eight-story steel frames in shaking table test are also processed.

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