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Dynamic characteristics for a hydro-turbine governing system with viscoelastic materials described by fractional calculus

Yan Long , Beibei Xu , Diyi Chen , Wei Ye

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Highlights

- A fractional-order model of the hydraulic servo system is proposed.
- The proposed model can be used for the hydro-turbine governing system with order uncertainty.
- Fractional nonlinear dynamic characteristics are analyzed.
- Changing law of some key points are presented.

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