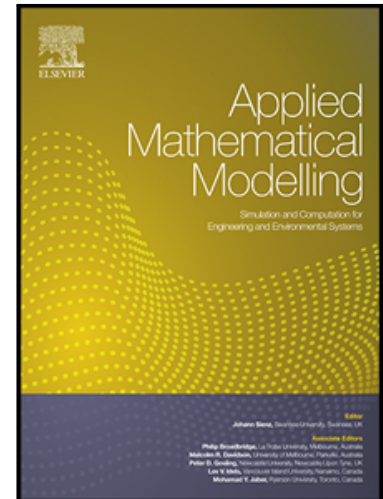


## Accepted Manuscript

Analysis of the Damping Characteristics of two Power Electronics-based Devices using 'Individual Channel Analysis and Design'

Carlos E. Ugalde-Loo, Enrique Acha, Eduardo Licéaga-Castro

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**Highlights**

- A comparison of the dynamic responses of two quite distinct power electronics-based devices is presented.
- The comparison is made in the frequency domain under the individual channel analysis and design framework.
- Two system configurations with compensation are analysed: in series and in shunt.
- Detailed analyses are done to elucidate the dynamic behavior of a synchronous generator in the presence of the devices.
- The devices abilities to eliminate the switch-back characteristic of synchronous generators are critically examined.

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