

Can a damping index be used in wind-integrated power system?

This index is based on the linearized estimation of dissipated energy caused by damping effect. It can quantitatively evaluate the generator damping under different modes and can realize online calculation with the support of PMU and WAMS. The test results show that the proposed index has good adaptability in wind-integrated power system.

Do high buildings affect the wind field between Hongqiao Airport and experimental area?

There are very few high buildings that seriously affect the wind field between the Hongqiao Airport and the experimental area. The wind fields at these two locations may be slightly different. In the follow-up study, we will update the experimental equipment to obtain more fine-grained observations of meteorological factors.

Can a global index measure the damping contribution of a generator?

The damping ratio as a global index cannot measure the damping contribution of a single generator. The current assessment of generator damping is mainly divided into two categories. The first category is based on the correlation analysis of the energy method. The second category is based on the correlation analysis of damping torque.

(DOI: 10.1016/J.TRD.2018.01.030) Traffic emissions are a major contributor to urban atmospheric pollution. The wind fields also play an important role in the dispersion of air pollutants from the ...

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The PM generator has a novel stator structure and two Y-connected winding sets. The wind power generator system can automatically track the maximum power from wind without the need for converters ...

The rotor blades on a wind turbine transfer the power of the wind via a drive shaft to a generator in the nacelle. The rotor blades are adjustable to produce the largest amount of electricity, regardless of whether the wind is blowing hard or ...

Wang, Q., Bai, L., et al. (2014) The Inertial Control of Double-Fed Wind-Driven Generator Set. Electric Switcher, No. 4, 24-28. ... Parameter  $Q(Z)$  as an Alternative to Standard DE and Its ...

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