

عنوان مقاله:

Automatic generation control of a two-area power system using classic controllers in a deregulated environment

محل انتشار:

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خلاصه مقاله:

This paper investigates the AGC of a two-area power system composed of two interconnected thermal power plants in a deregulated environment. With existence of Electrical industry deregulation, the AGC system has been considered by taking the effect of bilateral contracts into account; it means that any DISCO may have contracts with any GENCO in other areas. In this research the effect of classic controllers such as Integral (I), Proportional - Integral (PI), Proportional - Integral - Derivative (PID) and Proportional - Integral - double Derivative (PIDD) controllers are also investigated and compared with each other. The investigations show that PIDD controller has a better dynamic response than the other controllers in the same case study.

کلمات کلیدی:

Automatic Generation Control, two-area power system, deregulated environment, classic controllers, PIDD controller

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