

عنوان مقاله:

Study of Dynamic Responses of an Interconnected Three-Area all Thermal non reheat power system with Governor using Fuzzy Logic Load Frequency Controller

محل انتشار:

هشتمین همایش پژوهش های نوین در علوم و فناوری (سال: 1395)

تعداد صفحات اصل مقاله: 10

نویسندگان:

Hossein Emami - *Production Technology Research Institute(PTRI) of Iranian Academi Center for Education, Culture and Research(ACECR) of Khuzestan, Ahwaz, Iran*

Amir Kalantari - *Production Technology Research Institute(PTRI) of Iranian Academi Center for Education, Culture and Research(ACECR) of Khuzestan, Ahwaz, Iran*

خلاصه مقاله:

In industry increasing load is a major problem for power generation factories to increase in demand for power. So make a balance between load demand and generation is the operating fact of load frequency control (LFC). The trust worthy operation of a large interconnected power system presently requires an Automatic Generation Control (AGC). Automatic generation control is a significant issue in power system operation and control for balancing the generation and load in power systems at a minimum cost. This paper present analysis on dynamic performance of Load Frequency Control of four area interconnected power system by use of conventional PI controller and Fuzzy Logic controller(FLC). the proposed fuzzy logic controller assurances that inadvertent interchange of tie-lines power and the steady state error of frequencies are preserved in a certain forbearance limitations. The performances of the .controllers are simulated using MATLAB-SIMULINK environment

کلمات کلیدی:

Load Frequency Control (LFC), Multi-Area Control, PID Controller, Ziegler- Nichols Method, Fuzzy Logic Controller ((FLC

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/651394>

