Abstract

Accurate modeling of hydraulic turbine and its governor system is essential to depict and analyze the system response during an emergency. In this paper, both hydraulic turbine and turbine governor system are modeled. The hydro turbine model is designed using penstock and turbine characteristic equations and its governor system is modeled using PID controller. The simulation model is developed using MATLAB SIMULINK. The dynamic response of governing
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system to the disturbances such as load variation on the generator parameter is studied. The results graphically demonstrate the effect of load variation on generator parameters.

References

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Index Terms

Computer Science  Soft Computing

Keywords

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