

Name : Mr. Anant Unsivilai

Thesis Title : Synchronous Machine Parameter's Identifier
for Power System Stabilizer

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Thesis Advisors : Asst. Prof. Dr. Somchai Chatratana, Mr. Narin
Vongpongsavivat

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Abstract

Disturbance load changing, fault etc. always occur in the power system the disturbance causes the synchronous generator to loose synchronism with the system.

In order to improve the dynamic performance under the transient due to disturbance the power system stabilizer is installed in the system.

The power system stabilizer can only control the system to operate under the optimum condition is the important parameters of the system is known.

Normally the parameter of the system under control can be determined from test but the value of the parameter is normally calculated for some operating condition only.

Changes in parameters due to the changes in operating condition can cause the system to give wrong control parameter.