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Stability enhancement of multi-machine power systems using ...

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Generalized Unified Power Flow Controller (GUPFC) Ha Thi Nguyen, Li Wang. ... The proposed GUPFC is designed to contribute adequate damping characteristics and enhance power quality of the studied multi-machine system under various operating conditions using MATLAB/SIMULINK toolbox. A time ...

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Due to the extensive use of PSS as a stability controller, various techniques have been used for its design . In , a chaotic optimization algorithm (COA) is used for PSS parameter design for multi-machine system suffering from severe fault conditions. The proposed method had superiority in damping the oscillations over other conventional and General Algorithm (GA) based PSS design.

Amended GWO approach based multi-machine power system ...

Stability Enhancement of Multi-Machine Power System interconnected with Wind and PV plants Using Fuzzy Logic-based FACTS Controller Abou-Hashema M El-Sayed¹, Hassan A Sayed², Ahmed A Zaki Diab^{3,*}, Yahia B Hassan⁴ 1,2,3 Dept of Electrical Engineering, Faculty of Engineering, Minia University, Minia, 61111, Egypt 3

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Transient Stability Enhancement in Multi-Machine Power System by using Power System Stabilizer (Pss) and Static Var Compensator (Svc)

Transient Stability Enhancement in Multi-Machine Power ...

Stability Enhancement of Multi-Machine Power System interconnected with Wind and PV plants Using Fuzzy Logic-based FACTS Controller Abou- Hashema M El-Sayed¹, Hassan A Sayed², Ahmed A Zaki Diab^{3,*}, Yahia B Hassan⁴ 1,2,3 Dept of Electrical Engineering, Faculty of Engineering,

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This paper presents the transient stability enhancement of a multimachine system using series FACTS controllers. Series FACTS controller devices, i.e. TCSC, SSSC and UPFC, have been used in this paper for enhancing the transient stability of the system. Time-domain simulations are carried on PSAT (power system analysis tool box).

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Transient Stability Enhancement of Multi-Machine Power Systems: Synchronization via Immersion of a Pendular System W. Dib
Wissam Dib (corresponding author) is with Department of Control systems, IFP New Energy, 1 et 4 Avenue du Bois Préau, 92852, Rueil Malmaison, France (e?mail: wissam.dib@ifp.fr).

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Transient Stability Enhancement of Multi Machine Power System, 978-620-0-08216-9, Transient stability control of electrical power systems considers the problem of loss of synchronism among synchronous generators when subjected to large disturbances. For the improvement of transient stability the general methods adopted are fast acting exciters, circuit breakers and reduction in system transfer ...

Transient Stability Enhancement of Multi Machine Power ...

A comprehensive review on stability analysis in multimachine power system is presented in this study. The increasing demand of power has led to the expansion of power system and complexity in design as well as operation. This threatens to deteriorate the stability and reliability in the power network.

Comprehensive review on enhancement of stability in ...

This study presents the application of Unified Power Flow Controller (UPFC) to improvement dynamic stability of a multi-machine electric power system installed with UPFC. Since UPFC is

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considered to mitigate Low Frequency Oscillations (LFO) and stability enhancement, therefore a supplementary stabilizer based on UPFC (like power system stabilizer) is designed to reach the defined purpose.

Dynamic Stability Enhancement of a Multi Machine Electric ...

Dynamic Stability Enhancement of Power Systems Using Neural-Network Controlled Static-Compensator D Harikrishna, N V Srikanth Dept. of Electrical Engineering, National Institute of Technology Warangal, Andhra Pradesh, India ... Modeling of multi-machine power system is obtained by considering the three-machine nine-bus system. Generator1 is ...

Dynamic Stability Enhancement of Power Systems Using ...

@inproceedings{Aly2014EnhancementOM, title={Enhancement of Multi-machine Power System Transient Stability Using Superconducting Fault Current Limiters with YBCO and Bi-2212}, author={Mohamed M. Aly and Emad Allam Mohamed}, year={2014} } Mohamed M. Aly, Emad Allam Mohamed Published 2014 One of the ...

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