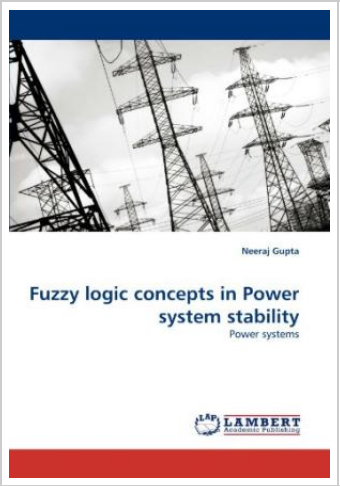

Fuzzy logic concepts in Power system stability

By Gupta, Neeraj

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Power systems | The use of power system stabilizers has become very common in operation of large electric power systems.The conventional PSS which uses lead- lag compensation, where gain settings designed for specific operating conditions, is giving poor performance under different loading conditions. Therefore, it is very difficult to design a stabilizer that could present good performance in all operating points of electric power systems. In an attempt to cover a wide range of operating conditions, Fuzzy logic control has been suggested as a possible solution to overcome this problem, thereby using linguist information and avoiding a complex system mathematical model, while giving good performance under different operating conditions. Simulink Block Design and Matlab-7.5 is utilized in implementing the study. The performance of the system with fuzzy logic based power system stabilizer is compared with the system having conventional power system stabilizer and system without power system stabilizer. | Format: Paperback | Language/Sprache: english | 132 gr | 88 pp.

Reviews

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