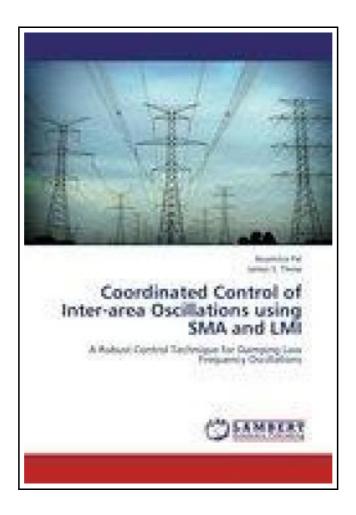
Coordinated Control of Inter-area Oscillations using SMA and LMI



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Reviews

It is great and fantastic. Better then never, though i am quite late in start reading this one. Its been written in an extremely simple way and is particularly only right after i finished reading this ebook where actually changed me, affect the way i really believe.

(Orin Blick)

COORDINATED CONTROL OF INTER-AREA OSCILLATIONS USING SMA AND LMI



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LAP Lambert Academic Publishing Jan 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x10 mm. This item is printed on demand - Print on Demand Neuware - This book demonstrates the application of a robust technique for damping low frequency oscillations. The control is designed by extending the logic of SMA and integrating it with the LMI technique to develop a single-gain feedback controller that is capable of damping oscillations in large systems. It is an integrated form of control because it combines different controllers together so as to prevent any negative interaction between the individual controls. A 16-machine, 68-bus model of the New England-New York interconnected power system is used as the test case with DC lines and SVCs acting as the control. The proposed technique is then applied to an equivalent model of the WECC system developed in MATLAB and finally transferred to a larger and more detailed version created in PSLF. The controllers initially used for the WECC system are the two HVDC lines and an SVC. Three ESDs are then added to the model for the improvement of the control. The results indicate that the proposed technique provides adequate damping to the relevant modes of oscillations over a wide variety of operating conditions and that it can be easily applied to large and complex power system networks. 160 pp. Englisch.



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