

# **Simultaneous Stabilization Of MIMO Systems Via Robustly Stabilizing a Central Plant**

Saif, A.-W. Gu, D.-W. Kavranoglu, D. Postlethwaite, I.; King Fahd Univ. of Pet. Miner.,  
Dhahran;

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King Fahd University of Petroleum & Minerals

**<http://www.kfupm.edu.sa>**

## **Summary**

In this note, a new formulation and solution to the simultaneous stabilization problem (SSP) is given. The new method is based on finding a central plant from a set of plants to be simultaneously stabilized. The theory of robust stabilization can then be applied to the central plant with a bounded perturbation, which encapsulates the plants to be stabilized, in order to solve the SSP

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