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# Optimal location of FACTS devices for congestion management

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## Abstract

This paper presents a simple and efficient model for optimizing the location of FACTS devices used for congestion management by controlling the device parameters. Congestion management using FACTS devices requires a two-step approach. First, the optimal location of the devices in the network must be ascertained and then, the settings of the control parameters optimized. The effectiveness of the proposed methods is demonstrated using a 5-bus system.



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## Keywords

Thyristor-controlled series compensators; Thyristor-controlled phase angle regulators; Optimal location of FACTS devices; Congestion management

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