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Application of Modal Series Method to Place Power System Stabilizers in Stressed Power Systems

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Abstract In this paper at first MS method is described then as a new application it is used to determine method can investigate the nonlinear behaviour of the studied system and provides the improvement which is not obtainable through linear approaches. In the proposed method the second-order method is used and utilized for selecting the best machine for placing a PSS. Two-area four-generator system show the validity of the proposed method. This study is performed under different degree of disturbance. The proposed technique results in improved PSS location that is not accounted for by conventional methods. The conventional method suggests different machines for PSS compared with proposed method. The proposed method provides more information in the analysis.

