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Extraction of Dynamic Patterns from Wide-Area Measurements using Empirical Orthogonal Functions

By Pedro Esquivel Prado

GRIN Publishing Okt 2014, 2014. Taschenbuch. Condition: Neu. Neuware - Doctoral Thesis / Dissertation from the year 2010 in the subject Electrotechnology, grade: Identificación de patrones, University of Guadalajara (CINVESTAV - Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional Unidad Guadalajara), course: Sistemas eléctricos de potencia, language: English, abstract: Multi-variate statistical data analysis techniques offer a powerful tool for analyzing power system response from measured data. In this thesis, a statistically-based, data-driven framework that integrates the use of complex wavelet empirical orthogonal function (EOF) analysis and the method of snapshots is proposed to identify and extract dynamically independent spatio-temporal patterns from time synchronized data. The procedure allows identification of the dominant spatial and temporal patterns in a complex data set and is particularly well suited for the study of standing and propagating features that can be associated with electromechanical oscillations in power systems. It is shown that, in addition to providing spatial and temporal information, the method improves the ability of conventional correlation analysis to capture temporal events and gives a quantitative result for both the amplitude and phase of motions, which are essential in the interpretation and characterization of transient processes in power systems. The efficiency...



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