

عنوان مقاله:

FLATNESS BASED DAMPING of POWER SYSTEM OSCILLATIONS WITH UNIFIED POWER FLOW CONTROLLER

محل انتشار:

كنفرانس بين المُللى يژوهش در علوم و تكنولوژي (سال: 1394)

تعداد صفحات اصل مقاله: 10

نویسندگان:

Mohsen Radan - Young Researchers and Elite Club, Najafabad Branch, Islamic Azad University, Najafabad, Isfahan,

Iman Asghari - Student of Islamic Azad University, Ashtyan Branch

Behzad Fayyaz Dastjerdy - Student of Islamic Azad University, Najafabad Branch

خلاصه مقاله:

A comprehensive approach to the design of UPFC controllers (power-flow controller, DC-voltage regulator and damping controller) ispresented. Studies reveal that damping is adversely affected by the incorporation of a DCvoltage regulator. Investigations were carried out to understand the relative effectiveness of modulation of the UPFC control signals niE and on damping of the system oscillations, using a controllability index.A dual damping controller based on simultaneous modulation of UPFC control signals ing and bE is proposed. Investigations reveal that alternative damping controllers (damping controller ing, damping controller and dual damping controller) provide robust dynamic performance under wide variations in loading condition and system parameters.this conditions improve under controller based flatness on trajectory generation and trajectory tracking of output flat

كلمات كليدى:

flatness; damping; oscillations; feedback linearization

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/446489

