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Vihang M. Dholakiya (10MEEE05)**

Devendra P. Parmar (10MEEE07) Under the Guidance of Dr. S. C. Vora
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 contingency the power system returns to
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In this paper a linearized Heffron-Philips model of a Single Machine Infinite Bus power system with a Fuzzy Logic Power System Stabilizer (PSS) is developed. The designed fuzzy-based PSS adjusts two inputs by appropriately processing of the input angular speed and angular acceleration signal, and provides an efficient damping.

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Moreover, the simulator includes a

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This chapter emphasizes on the analysis of small-signal stability problems in a multimachine power system. A detailed description of the method of multimachine modeling, simulations, and case studies are illustrated. Two-axis multimachine model with IEEE-Type I exciter considering all network bus dynamics is taken into consideration. [Power system stability](#) | [Power system simulation](#) | [OPAL-RT](#)

The simulation results of power system stabilizer tuning using random drift particle swarm optimization will be compared with the method of conventional particle swarm optimization.

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following a contingency the power system returns to a steady-state operating point - Goal is to solve a set of differential and algebraic equations, • d

$\dot{x} = f(x, y)$ [y variables are bus voltage and angle] • $g(x, y) = 0$ [x variables are dynamic state variables] - Starts in steady-state, and hopefully returns to a new steady-state.

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