

POWER SYSTEM PROTECTION SCHEME: USING FUZZY LOGIC RULE BASE SYSTEM.

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Abstract

A fuzzy Logic rule base controller, capable of analyzing the magnitude and deviation of power system parameters from a set point and then signals the protective relays is presented in this work. It consists of the analyzer unit which provides data as input to the decision unit and relay actuates with the principles of IF-THEEN RULE parameter. The simulation result shows that fuzzy logic can be applied to monitor power systems parameters for effective protection.

Keywords: Protection Scheme, Rule Formalism, Fuzzy Logic Rule, Pull-in current, Pull-out current, positive big, Positive small, Negative big, Negative small, Current fault signal, Current set point, Cascade compensation.