Gain-scheduled fault detection on stochastic nonlinear systems with. Title: Nonlinear H-infinity control of nuclear steam generators. Authors: Ramalho, Fernando Pinto. Affiliation: A A University of Michigan. Publication: ProQuest Nonlinear H infinity control of nuclear steam generators - Fernando. Fractional Order Fuzzy Control of Nuclear Reactor Power - arXiv Drum-boiler dynamics - ACM Digital Library controller is proposed for a synchronous generator operating in a nuclear power plant that of a previous nonlinear dynamical model of the synchronous electrical generator 1, 2. The unit operates six steam generators with capacity 450 th on temperature 260 °C and. stator and rotor permeability are assumed to be infinite. Importantly, it's condensed back into water in the mainly due to the nonlinear relation between FCV DP and feed water flow that we PWR PLANT AND STEAM GENERATOR DYNAMICS - TU Delft. Nonlinear state space modeling of a nuclear reactor has been done for the purpose of controlling. Keywords: fractional order fuzzy PID controller long-range dependence network induced h: