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controlled in the traditional manner the inputs on the nonlinear block web there are two classes of nonlinear control discontinuous and continuous the discontinuous methods include on off and three state devices these discontinuous methods are adequate only when accurate regulation is not essential continuous nonlinear control methods include fuzzy logic output filtering characterization and dead band or gap web 1 1 nonlinear systems nonlinear systems play a vital role in the control systems from an engineering point of view this is due to the fact that in practice all plants are nonlinear in nature this is the main reason for considering the nonlinear systems in our work web provides complete coverage of both the lyapunov and input output stability theories in a readable concise manner supplies an introduction to the popular backstepping approach to nonlinear control design gives a thorough discussion of the concept of input to state stability includes a discussion of the fundamentals of feedback web a self contained description of the fundamentals of the theory of nonlinear control systems considers the latest research results and techniques in the field an established and authoritative text written by one of the most internationally respected figures in web nonlinear control systems are those control systems where nonlinearity plays a significant role either in the controlled process plant or in the controller itself web jan 26

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