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a non linear control system is one that doesn't adhere to homogeneity practically all real world control systems are non linear although linear ones are theoretically possible the describing function serves as a method to approximate analysis of these non linear issues examples of non linear system non linear control system nonlinear control system is basically one that does not follow the simple rules we talked about earlier remember how we said in linear systems changing one thing changes another thing by the same amount well in real life most systems don't work like that non linear control systems below several different control systems are covered in more detail linear control system voltage and current characteristics are linear in a linear control system this assumes that each network piece will behave in a perfect manner and ignores all undesirable effects which is only conceivable in theories watch on control systems is an interdisciplinary topic involving all different types of engineering and it has applications everywhere from small electronic circuits to a big industrial robot even our own body is a very good example of a control system how we shall see a control system is a set of electronic devices that regulates or directs the behavior of other devices or systems according to the principle of the input process output cycle to achieve the desired output the widely used areas of control systems are electronics automation and engineering control system classes control nonlineariosystem edit on github control nonlineariosystem class control nonlineariosystem updfcn outfcn none params none kwargs source bases inputoutputsystem nonlinear i o system creates an inputoutputsystem for a nonlinear system by specifying a state update function and an output function a control system manages commands directs or regulates the behavior of other devices or systems using control loops it can range from a single home heating controller using a thermostat controlling a domestic boiler to large industrial control systems which are used for controlling processes or machines open loop controller in control theory an open loop controller also called a non feedback controller is a control loop part of a control system in which the control action input to the system 1 is independent of the process output which is the process variable that is being controlled 2 ess lim e t lim $s \rightarrow \infty$ m t 1 s 0 s 0 sq b s a s 1 lim m s 0 sq a s b s 1 lim m s 0 sq s c s which is some nonzero constant 1 note that if $q \neq 0$ the steady state error is ess lim $s \rightarrow \infty$ 0 m 1 p s c s 1 and if $q = 0$ the steady state error is ess $s \rightarrow \infty$ 0 m sq p s c s control nonlineariosystem edit on github note you are not reading the most recent version of this documentation 0 10 0 is the latest version available control nonlineariosystem class control nonlineariosystem updfcn outfcn none params none kwargs source nonlinear i o system linear 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