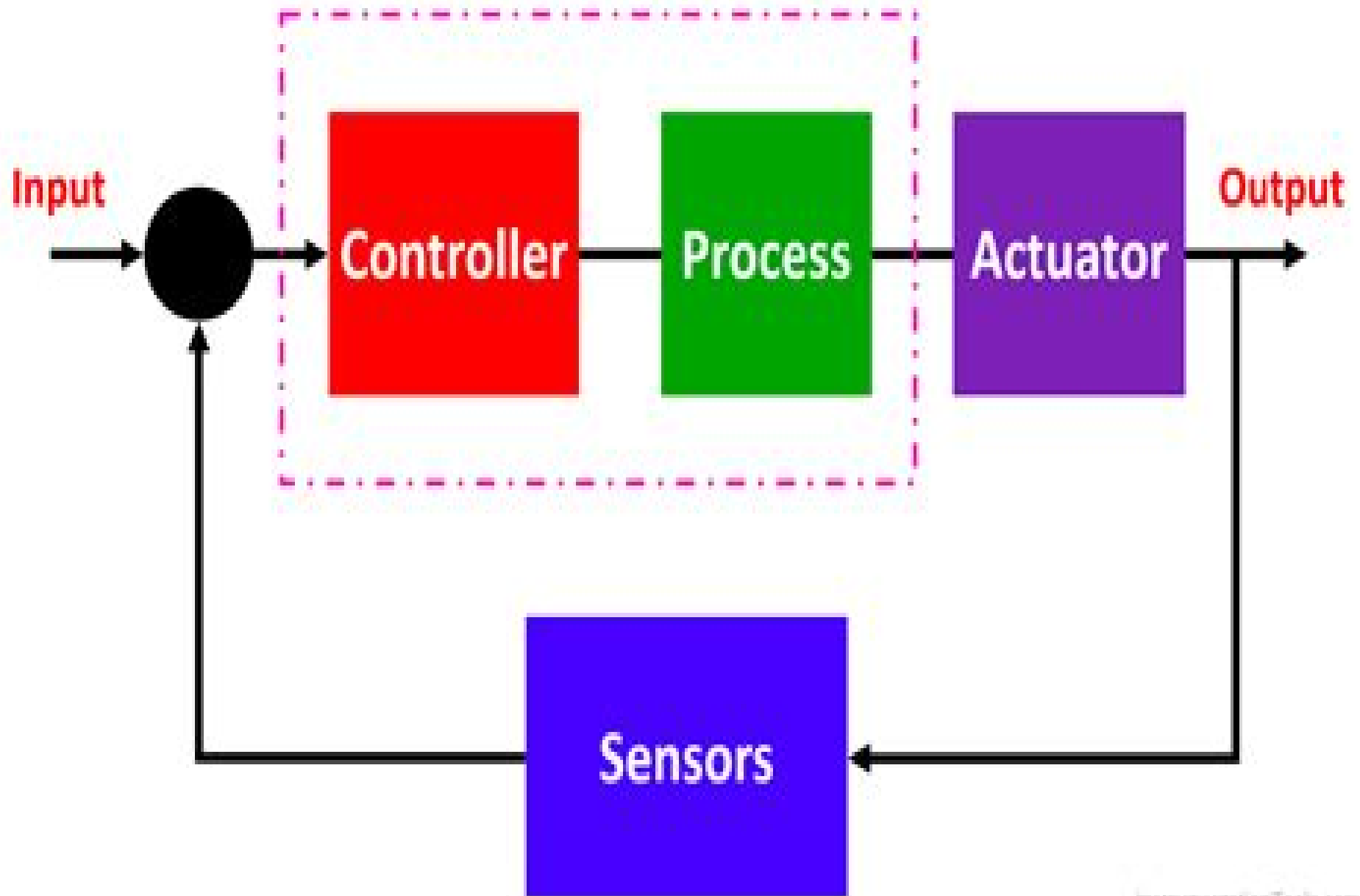


Feedback Control System



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Basic Feedback Control Systems Charles L. Phillips, Royce D. Harbor, 1991 An adaption of the introductory control text which covers analog systems only The book describes several control systems and develops mathematical models of some common control system components

Introduction to Feedback Control Using Design Studies Timothy McLain, Cammy Peterson, Randal Beard, 2019-07-03 This textbook provides a unique introduction to Feedback Control It differs from typical control books by presenting principles in the context of three specific design examples a one link robot arm a pendulum on a cart and a satellite attitude problem These three design examples illustrate the full process of implementing control strategies on mechanical systems The book begins by introducing the Euler Lagrange method for modeling mechanical systems and discusses computer simulation of these models Linear design models are developed specifically transfer function and state space models that capture the behavior of the system around equilibria The book then presents three different design strategies for output feedback control PID control observer based design and loopshaping design methods based on the frequency response of the system Extensive examples show how the controllers are implemented in Simulink Matlab object oriented code and Python

Pattern-oriented Analysis and Design Sherif M. Yacoub, Hany Hussein Ammar, 2004 Exploit

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Control System Principles and Design Ernest O. Doebelin, 1985-06-26. Designed for graduate and upper level undergraduate engineering students, this is an introduction to control systems, their functions, and their current role in engineering design. Organized from a design rather than an analysis viewpoint, it shows students how to carry out practical engineering design on all types of control systems. Covers basic analysis, operating, and design techniques as well as hardware/software implementation. Includes case studies. *Integrated Orbit, Attitude, and Structural Control Systems Design for Space Solar Power Satellites* Bong Wie, 2001

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