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Modern control engineering practice includes the use of control design strate- gies for improving manufacturing processes, the efficiency of energy use, and ad- vanced automobile control (including rapid transit,among others).We will examine these very interesting applications of control engineering and introduce the subject area of mechatronics.

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This tutorial is meant to provide the readers the know how to analyze the control systems with the help of mathematical models. After completing this tutorial, you will be able to learn various methods and techniques in order to improve the performance of the control systems based on the requirements.

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The meaning of control is to regulate or to direct or to command and therefore, a control system is an arrangement of distinct physical components connected in such a manner so as to regulate or to direct or to direct or to command itself or some other system. Also See: Smart Quill Seminar and PPT with PDF.

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Control is a process of causing a system variable such as temperature or position to conform to some desired value or trajectory, called reference value or trajectory. For example, driving a car implies controlling the vehicle to follow the desired path to arrive safely at a planned destination. If you are driving the car yourself, you are performing manual control of the car. If you use design a control system or use a computer to do it (Like Google Car)then you have built an automatic ...

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The Control Systems Engineer measures changes in the production line through sensors, as an example. Crucially, sensor technology has advanced considerably over recent years making it possible to use sensors in a much wider range of applications. Most of the work a Control Systems Engineer does is on a computer using mathematical modelling.

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