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Analysis and Design of Control Systems using MATLAB

There are essentially two methods to approach the problem of designing a new control system: the Classical Approach, and the Modern Approach. 2.3 Classical and Modern

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sired purpose. To understand the purpose of a control system, it is useful to examine examples of control systems through the course of history. These early systems incorporated many of the same ideas of feedback that are in use today. Modern control engineering practice includes the use of control design strate-

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and sensors, whether for engineered or natural systems. The second half of the book presents material that is often considered to be from the field of classical control. This includes the transfer function, introduced in Chapter 8, which is a fundamental tool for understanding feedback systems.

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12 Boiler Control Systems Engineering Figure 2-1 Simple feedback control. Note: See Reference section for explanation of functional diagram/symbols. Gilman chp2.qxd 6/14/2010 9:27 PM Page 12. Cascade Control Cascade control consists essentially of two feedback control loops connected together with the

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by control methods and the above are examples of what automatic control systems are designed to do, without human intervention. Control is used whenever quantities such as speed, altitude, temperature, or voltage must be made to behave in some desirable way over time. This section provides an introduction to control system design methods. P.A ...

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