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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 in-corporated 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 i-ield of âœclassical control.âœ This includes the transf er function, introduced in Chapter 8, which is a fundamental tool for understanding feedback systems.

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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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The INCOSE Systems Engineering Handbook version 3 development team owes a debt of gratitude to all the contributors to prior editions (versions 1, 2, and 2a). The framework they provided gave a solid basis for moving ahead with this version.

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systems are now becoming so complex that they pose challenges comparable to the natural systems. A fundamental goal of engineering science is to find system principles that make it possible to effectively deal with complex systems. Feedback, which is at the heart of automatic control, is an example of such a principle.

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