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maintain the control system. Whether an expert or a novice at electrical control devices and systems, the information presented should give you a check list to use in the steps to implementing an automated control system. " The engineer's first problem in any design situation is to discover what the problem really is. " - Unknown f t in 3

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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-

### **DOR-01-001-036v2 3/12/04 12:54 PM Page 1 CHAPTER**

engineering text and as an introduction for researchers in natural, information and social sciences. The bulk of the material is intended to be used regardless of the audience and covers the core principles and tools in the analysis and design of " feedback systems. Advanced sections, marked by the "dangerous bend" symbol

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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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ec 6405 " control system engineering prepared by: m.maharaja, ap / ece ec 6405 " control systems engineering l t p c 3 0 0 3 unit i control system modeling 9

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control is an important and integral part of space-vehicle systems,robotic systems,modern manufacturing systems, and any industrial operations involving control of temperature, pressure, humidity, flow, etc.

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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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