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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-

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

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CONTROL SYSTEM DESIGN 19.5 If  $y(t)$  is the displacement from the resting position and  $u(t)$  is the force applied, it can be shown using Newton's law that the motion is described by the following linear, ordinary differential equation with constant coefficients:

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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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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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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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