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civil, and electrical engineering. For example, a control system often includes electrical, mechanical, and chemical components. Furthermore, as the understanding of the dynamics of business, social, and political systems increases, the ability to control ... Control systems are control ...

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

automated control system, or even a simple on/off control for a pump, is safety, both for personnel that may be working with or near the automated equipment, as well as to prevent damage to the equipment.

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control systems. We begin in Chapter 2 with a description of modeling of physical, biological and information systems using ordinary differential equations and difference equations. Chapter 3 presents a number of examples in some detail, primarily ... most common approach to teaching feedback systems in engineering, many students-

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control systems require domain knowledge about the particular process to be controlled, knowledge of the techniques of control and specific technology used in sensors and actuators.

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Introduction to Control Theory And Its Application to Computing Systems Tarek Abdelzaher<sup>1</sup>, Yixin Diao<sup>2</sup>, Joseph L. Hellerstein<sup>3</sup>, Chenyang Lu<sup>4</sup>, and Xiaoyun Zhu<sup>5</sup> Abstract Feedback control is central to managing computing systems and data

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