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INTRODUCTION TO MECHATRONIC DESIGN J. EDWARD CARRYER R. MATTHEW OHLINE THOMAS W. KENNY Mechanical Engineering Stanford University Boston Columbus Indianapolis New York San Francisco Upper Saddle River

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Page 1-1 - In their words, mechatronics is defined as the synergistic integration of mechanical engineering, with electronics and intelligent computer control in the design and manufacturing of industrial products and processes.

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mechatronics should be used to represent a different meaning, namely, â€™œa design philosophy,â€™ where mechanical, electrical, electronics components, and IT should be considered together in the design stage itself to obtain a compact, efficient, and economic

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Introduction to Control Systems 1.1 Introduction 2 1.2 History of Automatic Control 4 ... Control Systems 9 1.6 Automatic Assembly and Robots 16 1.7 The Future Evolution of Control Systems 17 1.8 Engineering Design

18 1.9 Mechatronic Systems 19 1.10 Control System Design 23 ... Modern control engineering practice includes the use of control ...

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

What is Mechatronics? Mechatronics is the integration of mechanical, electrical, and computer technologies into the design of complex products

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INTRODUCTION There are many definitions of mechatronics as a scientific discipline, but one of the most accurate definitions could be  $\hat{\pm}$  "the synergistic integration of mechanical engineering with electronics and intelligent ... Mechatronic design approach and washing

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