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Mechatronics brings together areas of technology involving sensors and measurement systems, drive and actuation systems, and microprocessor systems (Figure 1.1), together with the analysis of the behaviour of systems and control systems. That essentially is a summary of this book.

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technology, and control engineering with mechanical engineering is increasingly forming a crucial part in the design, manufacture, and maintenance of a wide range of engineering products and processes.

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Preface Introduction 1 Introducing mechatronics Chapter objectives 1.1 What is mechatronics? 1.2 The design process 1.3 Systems 1.4 Measurement systems 1.5 Control systems 1.6 Programmable logic controller 1.7 Examples of mechatronic systems Summary Problems Sensors and signal conditioning 2 Sensors and transducers Chapter objectives 2.1 Sensors and transducers 2.2 Performance terminology 2.3 ...

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1969, as a combination of 'mecha' from mechanisms and 'tronics' from electronics. the word now has a wider meaning, being used to describe a philosophy in engineering technology in which there is a co-ordinated, and concurrently developed, integration of mechanical engineering with electronics and intelligent computer control in the design [...]

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of electronic engineering, mechanical engineering, control and computer engineering - Mechatronics - lies at the heart of the innumerable gadgets, processes and technology without which modern life would seem impossible.

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systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering. As technology advances over time, various subfields of ...

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The integration of electronic engineering, electrical engineering, computer technology and control engineering - mechatronics - forms a crucial part in the design, manufacture and maintenance of a wide range of engineering products and processes. This book provides a clear and comprehensive introduction to the application of electronic control systems in mechanical and electrical engineering.

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