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The term mechatronics was 'invented' by a Japanese engineer in 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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Mechatronics: Electronic Control Systems In Mechanical And Electrical Engineering provides the readers with a thorough guide into different key aspects of the subject of mechatronics. This book aims at providing the readers with a practical approach into the techniques for successfully designing mechatronic systems.

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Mechatronics is the synergistic integration of sensors, actuators, signal conditioning, power electronics, decision and control algorithms, and computer hardware and software to manage complexity, uncertainty, and communication in engineered systems.

Intro to Mechatronics - NYU Tandon School of Engineering

Mechatronics, which is also called mechatronics engineering, is a multidisciplinary branch of engineering that focuses on the engineering of both electrical and mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering. As technology advances over time, various subfields of engineering have succeeded in ...

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Mechatronics is the integration of electronic engineering, mechanical engineering, control and computer engineering. From auto-focus cameras to car engine management systems, and from state-of-the-art robots to the humble washing machine, Mechatronics has a hand in them all. This book presents a clear and comprehensive introduction to the area.

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Solution Manual for Mechatronics Electronic Control ...

Bolton, Mechatronics: Electronic Control Systems in Mechanical and Electrical Engineering, Addison Wesley Longman, New York, NY, 2nd Ed., 1999.

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These products are essentially mechanical in nature but could not function without electronics and computer control systems. The Mechatronics and Robotic Systems programme at XJTLU is a new cutting-edge major for a fast-growing industry. Students on this programme can learn and apply technologies in mechanical engineering, electronics ...

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