



Mechatronics: An Integrated Approach

Clarence W. de Silva

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While most books on the subject present material only on sensors and actuators, hardware and simulation, or modeling and control, *Mechatronics: An Integrated Approach* presents all of these topics in a single, unified volume from which users with a variety of engineering backgrounds can benefit. The integrated approach emphasizes the design and instrumentation of mechatronic systems.

A versatile text that spans several courses in mechatronics, the book offers a strong foundation in such core subjects as dynamic system modeling, electronic components and analysis, mechanical components and analysis, robotics, sensors/transducers and instrumentation, stepper motors, dc and ac motors and drives, hydraulic and pneumatic actuators, fluidics, automatic control, digital processing and hardware, communication and interfacing, software tools, design, and prototyping. Appendices provide additional background on Laplace and Fourier transform techniques, and software tools including MATLAB®, SIMULINK®, and LabVIEW®. The book emphasizes practical situations and applications with numerous worked examples, problems, and exercises. An entire chapter is devoted to practical case studies.

Mechatronics: An Integrated Approach seamlessly incorporates advanced theory and concepts, various considerations of practical applications including tools, instrumentation, design issues, automatic control, and industrial techniques using a reader-friendly, snapshot style that is ideal for students with a basic engineering background

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