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Focusing on recent developments in engineering science, enabling hardware, advanced technologies, and software, Micromechatronics: Modeling, Analysis, and Design with MATLAB®, Second Edition provides clear, comprehensive coverage of mechatronic and electromechanical systems. It applies cornerstone fundamentals to the design of electromechanical systems, covers emerging software and hardware, introduces the rigorous theory, examines the design of high-performance systems, and helps develop problem-solving skills. Along with more streamlined material, this edition adds many new sections to existing chapters.

New to the Second Edition

Updated and extended worked examples along with the associated MATLAB® codes

Additional problems and exercises at the end of many chapters

New sections on MATLAB

New case studies

The book explores ways to improve and optimize a broad spectrum of electromechanical systems widely used in industrial, transportation, and power systems. It examines the design and analysis of high-performance mechatronic systems, energy systems, efficient energy conversion, power electronics, controls, induced-strain devices, active sensors, microcontrollers, and motion devices. The text also enables a deep understanding of the multidisciplinary underpinnings of engineering. It can be used for courses in mechatronics, power systems, energy systems, active materials and smart structures, solid-state actuation, structural health monitoring, and applied microcontroller engineering.