



Mechatronics: Principles and Applications

By Godfrey Onwubolu

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Mechatronics is a core subject for engineers, combining elements of mechanical and electronic engineering into the development of computer-controlled mechanical devices such as DVD players or anti-lock braking systems. This book is the most comprehensive text available for both mechanical and electrical engineering students and will enable them to engage fully with all stages of mechatronic system design. It offers broader and more integrated coverage than other books in the field with practical examples, case studies and exercises throughout and an Instructor's Manual. A further key feature of the book is its integrated coverage of programming the PIC microcontroller, and the use of MATLAB and Simulink programming and modelling, along with code files for downloading from the accompanying website.

*Integrated coverage of PIC microcontroller programming, MATLAB and Simulink modelling

*Fully developed student exercises, detailed practical examples

*Accompanying website with Instructor's Manual, downloadable code and image bank

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Editorial Review

From the Back Cover

Mechatronics combines elements of mechanical, electrical and electronic engineering into the development of computer-controlled mechanical systems and devices, ranging from home DVD players through to complex heavy landing gear in airliners. Often viewed as 'modern mechanical engineering design', mechatronics has spread to engineered products and systems of all types in the highly competitive international marketplace. This book is the most comprehensive mechatronics text available, enabling students and professionals to engage fully in all aspects of mechatronic system design, from conceptualization to final product.

Key Features include:

- * Integrated coverage of PIC microcontroller programming, MATLAB and Simulink modelling
- * Fully developed student exercises and detailed practical examples
- * An accompanying website with Instructor's Solutions Manual, downloadable code and image bank

Mechatronics: Principles and Applications delivers broad and integrated coverage, including semiconductor electronic devices, digital circuits and systems, sequential logic systems, reliability, AI, sensors and actuators. In a widely pervasive and expanding subject, Mechatronics is an essential book for students and professionals.

Users Review

From reader reviews:

Maria Vanness:

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Tom Moore:

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Melissa Broussard:

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David Moore:

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