



# **Micromechatronics: Modeling, Analysis, and Design with MATLAB (Nano- and Microscience, Engineering, Technology and Medicine)**

*Victor Giurgiutiu, Sergey Edward Lyshevski*

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Mechatronics-the breakthrough concept in the design and analysis of electromechanical systems and the unified cornerstone of modern engineering. Microsystems-the future of technology, but fraught with the challenges inherent at small scales. Apply the power and versatility of mechatronics to microsystems and we find a way to attack, integrate, and solve a great variety of emerging engineering problems.

Micromechatronics: Modelling, Analysis, and Design with MATLAB synthesizes traditional engineering topics and the latest technologies to build a solid understanding of the engineering underpinnings of integrated technologies and develop the modern picture of microelectromechanical engineering. Emphasizing the modeling, simulation, analysis, design, and implementation of high-performance mini-and microscale electromechanical systems, the authors develop the rigorous theory, demonstrate the application of theoretical results, and explore state-of-the-art technologies. MATLAB is used throughout the book to illustrate practical examples and help readers master this powerful, industry-standard software.

The application of mechatronics, particularly micromechatronics, is an endless frontier. All engineers will soon need a working knowledge of the theoretical bases and their practical applications. Comprehensive in coverage and global in perspective, Micromechatronics: Modeling, Analysis, and Design with MATLAB helps build the background you need to design and analyze state-of-the-art systems and contribute to further advancements.

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