



# DSP-Based Electromechanical Motion Control (Power Electronics and Applications Series)

*Hamid A. Toliyat, Steven G. Campbell*

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Although the programming and use of a Digital Signal Processor (DSP) may not be the most complex process, utilizing DSPs in applications such as motor control can be extremely challenging for the first-time user. DSP-Based Electromechanical Motion Control provides a general application guide for students and engineers who want to implement DSP-based motion control systems in products and industrial systems.

This overview explains the benefits of integrating DSP into motion control, detailing the degree of freedom provided by a a DSP for the development of constructive, computationally extensive algorithms. The authors explain how the use of these advanced algorithms can drastically increase the performance and efficiency of an electromechanical system.

Chapters are supported by laboratory exercises, enabling you to immediately apply the information to practical scenarios. Following an extensive analysis of the LF2407 DSP processor, the book presents numerous real-world applications, demonstrating current use and inspiring future development.

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