# Engineering and Scientific Computations Using MATLAB

*Sergey E. Lyshevski*

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Going beyond traditional MATLAB user manuals and college texts, Engineering and Scientific Computations Using MATLAB guides you through the most important aspects and basics of MATLAB programming and problem-solving from fundamentals to practice. Augmenting its discussion with a wealth of practical worked-out examples and qualitative illustrations, this book demonstrates MATLAB's capabilities and offers step-by-step instructions on how to apply the theory to a practical real-world problem. In particular, the book features:
* Coverage of a variety of complex physical and engineering systems described by nonlinear differential equations
* Detailed application of MATLAB to electromechanical systems
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