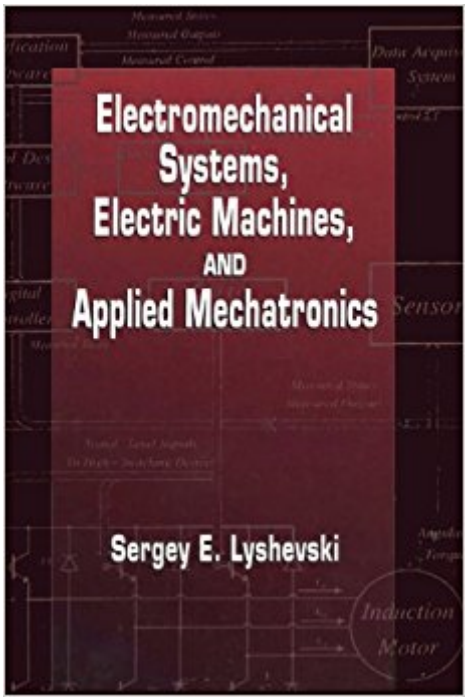
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Electromechanical Systems, Electric Machines, And Applied Mechatronics (Electric Power Engineering Series)



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Synopsis

Recent trends in engineering show increased emphasis on integrated analysis, design, and control of advanced electromechanical systems, and their scope continues to expand. Mechatronics-a breakthrough concept-has evolved to attack, integrate, and solve a variety of emerging problems in engineering, and there appears to be no end to its application. It has become essential for all engineers to understand its basic theoretical standpoints and practical applications.Electromechanical Systems, Electric Machines, and Applied Mechatronics presents a unique combination of traditional engineering topics and the latest technologies, integrated to stimulate new advances in the analysis and design of state-of-the-art electromechanical systems. With a focus on numerical and analytical methods, the author develops the rigorous theory of electromechanical systems and helps build problem-solving skills. He also stresses simulation as a critical aspect of developing and prototyping advanced systems. He uses the MATLABÃ¢â Â¢ environment for his examples and includes a MATLABÃ¢â Â¢ diskette with the book, thus providing a solid introduction to this standard engineering tool.Readable, interesting, and accessible, Electromechanical Systems, Electric Machines, and Applied Mechatronics develops a thorough understanding of the integrated perspectives in the design and analysis of electromechanical systems. It covers the basic concepts in mechatronics, and with numerous worked examples, prepares the reader to use the results in engineering practice. Readers who master this book will know what they are doing, why they are doing it, and how to do it.

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