Automatic Control Systems, Tenth Edition

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A complete toolkit for teaching, learning, and understanding the essential concepts of automatic control systems

Edition after acclaimed edition, *Automatic Control Systems* has delivered up-to-date, real-world coverage designed to introduce students to the fundamentals of control systems. More than a comprehensive text, *Automatic Control Systems* includes innovative virtual labs that replicate physical systems and sharpen readers' problem-solving skills.

The Tenth Edition introduces the concept of Control Lab, which includes two classes of experiments: SIMLab (model-based simulation) and LEGOLab (physical experiments using LEGO® robots). These experiments are intended to supplement, or replace, the experimental exposure of the students in a traditional undergraduate control course and will allow these students to do their work within the MATLAB® and Simulink® environment?even at home. This cost-effective approach may allow educational institutions to equip their labs with a number of LEGO test beds and maximize student access to the equipment at a fraction of the cost of currently available control system experiments. Alternatively, as a supplemental learning tool, students can take the equipment home and learn at their own pace.
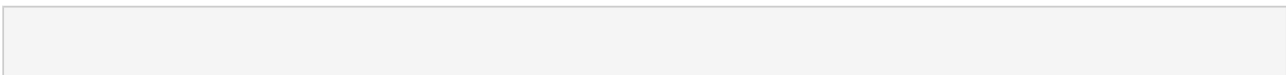
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• A greater number of solved examples
• Online labs using both LEGO MINDSTORMS® and MATLAB/SIMLab
• Enhancements to the easy-to-use MATLAB GUI software (ACSYS) to allow interface with LEGO MINDSTORMS
• A valuable introduction to the concept of Control Lab
• A logical organization, with Chapters 1 to 3 covering all background material and Chapters 4 to 11 presenting material directly related to the subject of control
• 10 online appendices, including Elementary Matrix Theory and Algebra, Control Lab, Difference Equations, and Mathematical Foundation
• A full-set of PowerPoint® slides and solutions available to instructors

Adopted by hundreds of universities and translated into at least nine languages, *Automatic Control Systems* remains the single-best resource for students to gain a practical understanding of the subject and to prepare them for the challenges they will one day face. For practicing engineers, it represents a clear, thorough, and current self-study resource that they will turn to again and again throughout their career.

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