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EXAMPLE PROBLEMS AND SOLUTIONS A-3-1. Simplify the block diagram shown in Figure 3-42. Solution. First, move the branch point of the path involving  $H_1$  outside the loop involving  $H_2$ , as shown in Figure 3-43(a). Then eliminating two loops results in Figure 3-43(b). Combining two blocks into one gives Figure 3-33(c). A-3-2.

### EXAMPLE PROBLEMS AND SOLUTIONS

computer-based problems. It is assumed that instructors (and students) have access to MATLAB, the Control System Toolbox or the LabVIEW and MathScript. All of the computer solutions in this Solution Manual were developed and tested on a Window XP platform using MATLAB 7.3 Release 2006b and the Control System Toolbox Version 7.1 and LabVIEW 8.2.

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The abundance of problems of in-creasing complexity gives students confidence in their problem-solving ability as they work their way from the exercises to the design and computer-based problems. It is assumed that instructors (and students) have access to MATLAB and the Control System Toolbox or to LabVIEW and the MathScript RT Module.

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### SOLUTIONS MANUAL MODERN CONTROL ENGINEERING

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### Optimal control - Wikipedia

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