



Computer-Controlled Systems: Theory and Design, Third Edition (Dover Books on Electrical Engineering)

By Karl A Astrom, Bjorn Wittenmark

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Practically all modern control systems are based upon microprocessors and complex microcontrollers that yield high performance and functionality. This volume focuses on the design of computer-controlled systems, featuring computational tools that can be applied directly and are explained with simple paper-and-pencil calculations. The use of computational tools is balanced by a strong emphasis on control system principles and ideas. Extensive pedagogical aids include worked examples, MATLAB macros, and a solutions manual (see inside for details).

The initial chapter presents a broad outline of computer-controlled systems, followed by a computer-oriented view based on the behavior of the system at sampling instants. An introduction to the design of control systems leads to a process-related view and coverage of methods of translating analog designs to digital control. Concluding chapters explore implementation issues and advanced design methods.

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- Sales Rank: #913327 in Books
- Published on: 2011-12-14
- Released on: 2011-11-16
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x 1.20" w x 6.10" l, 1.65 pounds
- Binding: Paperback
- 576 pages



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