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Control systems are one of the most important

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engineering fields, and recent advances in microelectronics and microelectromechanical systems have made feedback controls ubiquitous – a simple cell phone, for example, can have dozens of

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feedback control systems.
Recent research focuses on
advanced controls, such as
nonlinear systems, adaptive
controls, or controls based
on computer learning and
artificial intelligence.
Conversely, classical

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(linear) control theory is well established; yet, it provides the crucial foundation not only for advanced control topics, but also for the many everyday control systems ranging from cell phone backlight control

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and their realization and performance, complete with circuit diagrams and measured performance data

This book discusses analysis and design techniques for linear feedback control

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discussion of the
loopshaping technique and
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