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allows him to consider more subtle aspects of control system analysis and design. An engineering approach to digital controls: emphasis throughout the book is on design of control systems. Mathematics is used to help explain concepts, but

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throughout the text discussion is tied to design and implementation. For example coverage of analog controls in chapter 5 is not simply a review, but is used to show how analog control systems map to digital control systems Review of Background Material:

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contains review material to aid understanding of digital control analysis and design. Examples include discussion of discrete-time systems in time domain and frequency domain (reviewed from linear systems course) and root locus design in  $s$ -domain and  $z$ -

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domain (reviewed  
from feedback  
control course)

Inclusion of

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addition to the basic  
topics required for a  
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includes some  
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or for two quarters at  
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which may receive  
brief coverage in a  
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and nonlinear  
discrete-time systems  
Minimal Mathematics  
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mathematics



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background required for understanding most of the book is based on what can be reasonably expected from the average electrical, chemical or mechanical engineering senior. This background includes three semesters of calculus, differential equations and basic linear

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algebra. Some texts  
on digital control  
require more

This text's  
contemporary  
approach focuses on  
the concepts of linear  
control systems,  
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treatment of the  
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which provides a  
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features a new chapter on modern control system design, including state-space design techniques, Ackermann's formula for pole placement, estimation, robust control, and the  $H_\infty$  method for control system design. Other notable additions to this edition are: \*

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