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typical control systems may be represented by block diagrams. This is accomplished by first demonstrating how to represent each component or part of a system as a simple block diagram, then explaining how these individual diagrams may be connected to

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form the overall block diagram, just as the actual components are connected to form the complete control system. Because actual control systems frequently contain nonlinear components, considerable emphasis is given to such components.

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algebraically by the

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transforms; general

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root-locus method to the design of control systems; the use of the analog computer to simulate control systems; state-space methods; digital control systems; frequency-response methods; and system compensation.

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response, root
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analyses and
designs; analysis
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discussions of

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including concepts

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attempt to

organize and

unify the

diverse

methods of

analysis of

feedback

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control

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systems and

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presents the

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fundamentals

explicitly and

clearly. The

scope of the

text is such

that it can be

used for a two-

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course in

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systems at the

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level of

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various

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and chemical) .

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development of

basic theory.

The text is

easy to follow

and contains

many examples

to reinforce

the

understanding

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of the theory.

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programs have

been developed

in MATLAB

platform for

better

understanding

of design of

control

systems. Many

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varied

problems are

included at

the end of

each chapter.

The basic

principles and

fundamental

concepts of

feedback

control

systems, using

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the

conventional

frequency

domain and

time-domain

approaches,

are presented

in a clearly

accessible

form in the

first portion

(chapters 1

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through 10).

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The later

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portion

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(chapters 11

through 14)

provides a

thorough

understanding

of concepts

such as state

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observability.

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Students are

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also

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acquainted

with the

techniques

available for

analysing

discrete-data

and nonlinear

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hallmark

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feature of
this text is
that it helps
the reader

gain a sound
understanding
of both modern
and classical
topics in
control
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(in

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all senior

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students must

have,

including

frequency

response

approach, root-

locus

approach, and

state-space

approach to

analysis and

design of

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control

systems. The

text provides

a gradual

development of

control

theory, shows

how to solve

all

computational

problems with

MATLAB, and

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problems are

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text. The new

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Analysis

(Chapter 6)

and Frequency-

Response

Analysis

(Chapter 8) .

The author has

also updated

and revised

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many of the

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examples and

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end-of-chapter

problems .

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Linear Control

Systems with

MATLAB

Components and

Systems

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important issues of

documentation and

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tasks, monitoring

progress, and

reporting status of

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and linear thinking
and relates the types
of thinking to the
productivity of the
design engineers and
novelty of the end
design.