LINEAR DYNAMIC SYSTEMS AND SIGNALS

ZORAN GAJIĆ

This book, indended for the sophomore–junior level, presents both continuous- and discrete-time linear systems and signals. Divided into three major parts:

- Frequency-domain approach to linear dynamic systems and signals
- Time-domain approach to linear dynamic systems
- Linear systems and signals approach to electrical engineering (digital signal processing, communications, electrical circuits, and control systems)

Key Features:

- Flexible organization
- All linear system concepts are introduced in the frequency domain and then interpreted in the time domain
- Requires only elementary knowledge of linear algebra and differential equations
- Detailed coverage of the frequency domain transforms
- Detailed coverage of the convolution concept
- Detailed coverage of the state-space technique
- Self-study guide on linear dynamics systems and signals provides the foundation for other junior–senior courses in engineering (electrical, computer, biomedical, mechanical, and aerospace)
- MATLAB laboratory experiments after each chapter
- Numerous real-world examples from diverse areas of engineering: electrical, mechanical, biomedical, aerospace, industrial, computer networks and economics
- Companion Web site contains all MATLAB programs and numerical data for examples, problems, and MATLAB-oriented laboratory experiments

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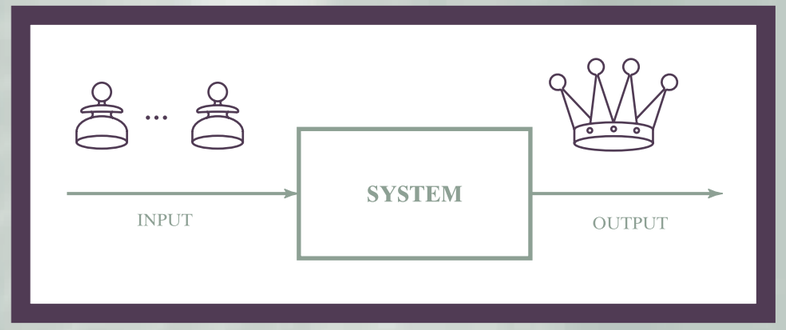

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