



Principles of Linear Systems

Philip E. Sarachik

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State-space methods form the basis of modern control theory. This textbook is devoted to a description of these methods in the analysis of linear multi-input, multi-output dynamic systems. Following a chapter that sets out the basic concepts and definitions, the author discusses state equations of finite dimensional systems and their solution. He then presents the principles of time-domain and frequency-domain analysis, and the properties and applications of the Z-transformation. Separate chapters deal with the controllability, observability, and stability of linear systems. The appendix offers a useful tutorial review of the key results from matrix theory and linear algebra. The book includes several worked examples, and there are problems at the end of each chapter. It will be of great use to advanced undergraduate and graduate students of electrical or mechanical engineering taking courses in linear systems or control systems.

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