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Adjoint Transformations; Appendix B: Elements of Linear Systems Theory; B.1 Definition of Linear Systems
B.2 ARMA Model and Transfer Function
B.3 Computation of Transfer Functions and Realization; B.4 Interconnected Subsystems and Mason's Formula; B.5 Change of Coordinates and Equivalent Systems; B.6 Motion, Trajectory, and Equilibrium; B.7 Lagrange's Formula and Transition Matrix; B.8 Reversibility; B.9 Sampled-Data Systems; B.10 Internal Stability: Definitions; B.11 Eigenvalues and Stability; B.12 Tests of Asymptotic Stability; B.13 Energy and Stability; B.14 Dominant Eigenvalue and Eigenvector; B.15 Reachability and Control Law; B.16 Observability and State Reconstruction
B.17 Decomposition Theorem
B.18 Determination of the ARMA Models;
B.19 Poles and Zeros of the Transfer Function; B.20 Poles and Zeros of Interconnected Systems; B.21 Impulse Response; B.22 Frequency Response; B.23 Fourier Transform; B.24 Laplace Transform; B.25 Z-Transform; B.26 Laplace and Z-Transforms and Transfer Functions;
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Sommario/riassunto

A complete study on an important class of linear dynamical systems—positive linear systems. One of the most often-encountered systems in nearly all areas of science and technology, positive linear systems is a specific but remarkable and fascinating class. Renowned scientists Lorenzo Farina and Sergio Rinaldi introduce readers to the world of positive linear systems in their rigorous but highly accessible book, rich in applications, examples, and figures. This professional reference is divided into three main parts: The first part contains the definitions and basic properties of p
