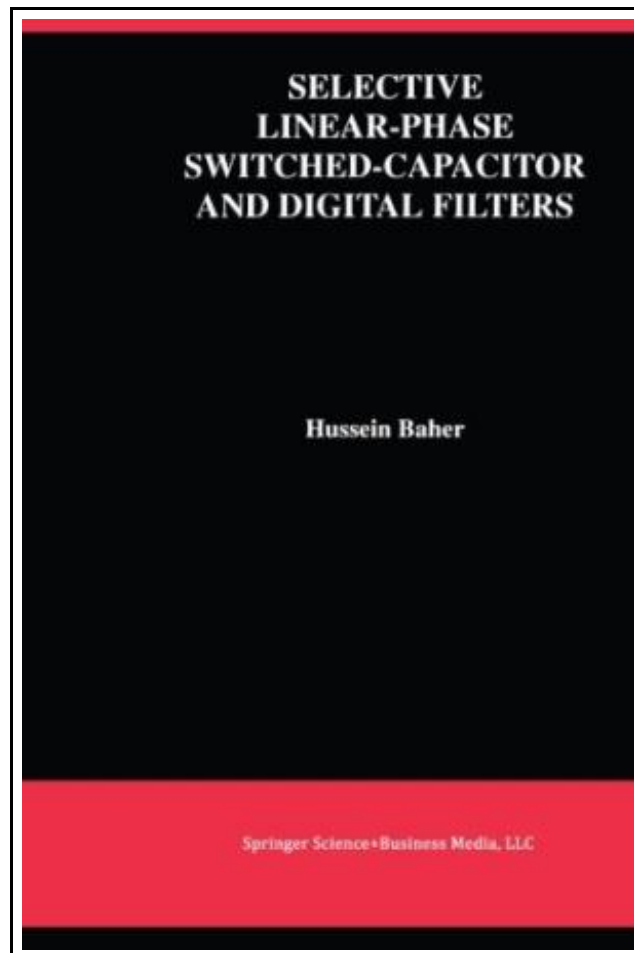# Selective Linear-Phase Switched-Capacitor and Digital Filters

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Reviews

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SELECTIVE LINEAR-PHASE SWITCHED-CAPACITOR AND DIGITAL FILTERS

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Modern high-capacity communication systems require filters with simultaneous good amplitude and phase responses. Selective Linear-Phase Switched-Capacitor and Digital Filters is the first coherent treatment of selective linear-phase switched-capacitor filters written by a leading international authority on the subject. Digital realizations of the same characteristics are also treated. In both cases, emphasis is laid on optimal low-sensitivity structures, a highly desirable attribute from the practical view-point. With the increasing interest in high-frequency switched-capacitor filters, the range of operation reaches a point where the phase response becomes a major design consideration, thus heightening the importance of this book. Selective Linear-Phase Switched-Capacitor and Digital Filters is an invaluable reference for electronic circuit design engineers and researchers as well as graduate students, and may be used as a text for an advanced course on the subject. | 1 General Considerations.- 1.1 Introduction.- 1.2 Low-sensitivity Structures.- 1.2.1 Switched-capacitor State-variable Ladder Filters.- 1.2.2 Wave Digital Filters.- 1.3 Cascade Realizations.- 1.4 Phase and Delay Functions.- 1.5 Conclusion.- 2 Analytic Ladder Design.- 2.1 Introduction.- 2.2 Low-pass Filters.- 2.2.1 Maximally-flat Group-delay Response.- 2.2.2 Equidistant Linear-phase Response.- 2.2.3 Flat Delay Response with Amplitude Se lectivity.- 2.3 High-pass Filters.- 2.4 Conclusion.- 3 Optimal Low-pass Ladder Design.- 3.1 Introduction.- 3.2 Preliminaries.- 3.3 The Design Technique.- 3.3.1 Construction of the Prototype Transfer Func tion.- 3.3.2 Derivation of the Realizable Transfer Func tion.- 3.4 Examples.- 3.5 Conclusion.- 4 Optimal Band-pass Ladder Design.- 4.1 Introduction.- 4.2 Band-pass Transfer Functions.- 4.3 The Hilbert Transform.- 4.4 Derivation of the Transfer Function.- 4.4.1 The Prototype Transfer Function.- 4.4.2 The Realizable Transfer Function.- 4.5 Design Examples.- 4.6 Conclusion.- 5 Generalized Approximation.- 5.1 Introduction.- 5.2 The Main Theorem.- 5.3 Stability and Performance.- 5.3.1 The Finite-band Case.- 5.3.2 The Zero-bandwidth Case.- 5.4 Conclusion. | Format: Paperback | Language/Sprache: english | 254 gr | 136...

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