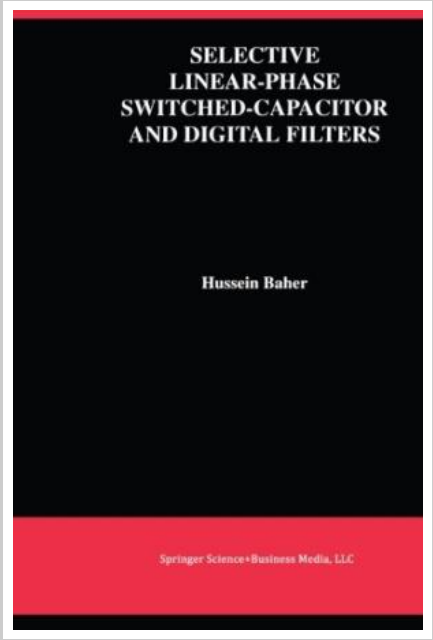

Selective Linear-Phase Switched-Capacitor and Digital Filters

By Baher, Hussein

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...

Reviews

Extensive guide! Its such a very good read. I really could comprehended almost everything out of this created e ebook. You will like how the writer write this ebook.

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